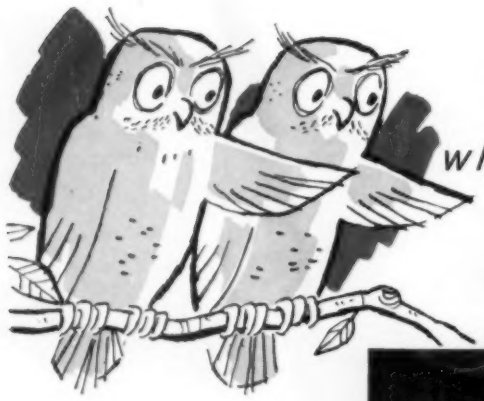
CONCRETE

OUR 53RD YEAR

Serving the Concrete Industries

JUNE 1957



You're Doubly Wise

when you **BESSERIZE***

Always Use Genuine BESSER Parts

PARKERIZING PROCESS

Rustproofing Genuine Besser Parts. Accomplished by acid etching and oil bath . . . a licensed process approved by Army and Navy Ordnance.

The wise blockmaker installs the world-famous Besser Vibrapac. And he's doubly wise when he continues to specify GENUINE BESSER PARTS when replacements are necessary. Here's why. You get the same long-life performance originally built into the Besser Vibrapacs. The parts are precision made and completely interchangeable. You're assured of quality material plus thorough inspection. Made in the *same* plant, by the *same* skilled workers, using the *same* equipment . . . Genuine Besser Parts are the same as the parts used in the manufacture of new Vibrapac machines. *They can't be any better.*

BESSER Company

DEPT. 127 ALPENA, MICHIGAN, U. S. A.

Complete Equipment for Concrete Block Plants

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DRake 3-5781

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STate 5-5457

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Newark, New Jersey
Phone:
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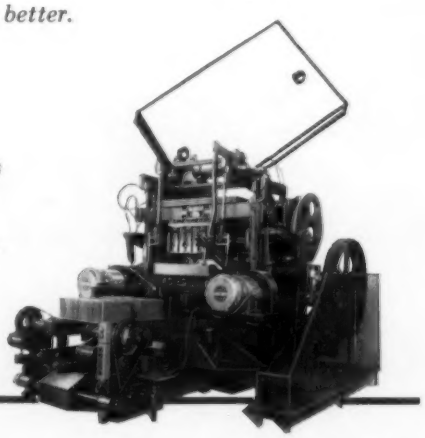
BESSER Genuine PARTS



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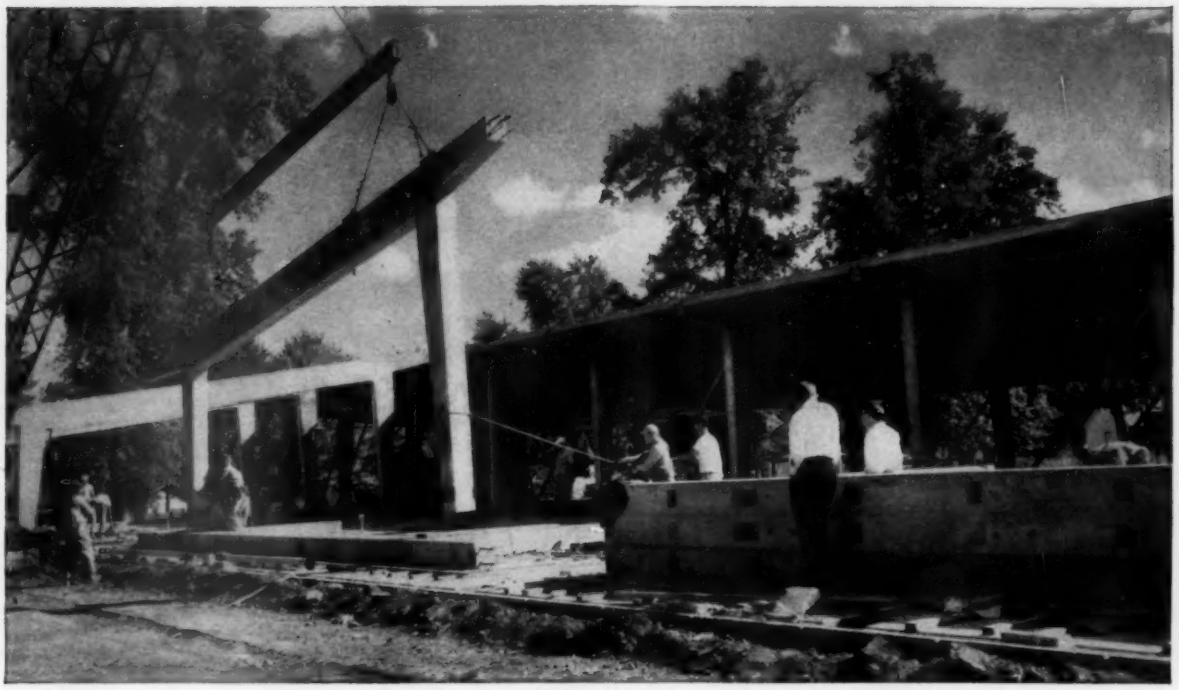
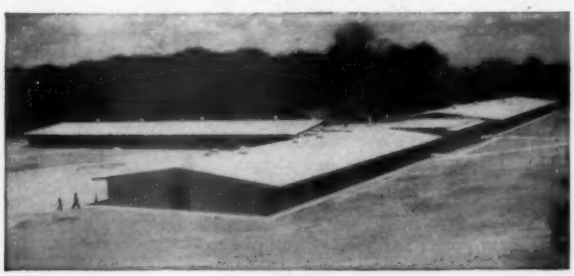


Precast 'Incor' School

SAVES MONEY, TIME...LIVES

● School Boards and Taxpayers everywhere are wrestling with the problem of providing badly needed schools in a hurry, while keeping costs within manageable limits. This unusually attractive Hoosier school points the way to a sound solution—that is, the precast concrete school.

Structural frame and roof were precast at job site. Careful planning, with standardization and repetition uppermost in mind, made possible utmost re-use of forms in the casting beds . . . dependable 'Incor' high early strength produced maximum output with minimum form investment.



Result, this 36-classroom, 1200-pupil, one-story building, with three classroom units radiating from central administration, service and cafeteria unit—at a cost of $858,000. Contributing to this economical end result was a saving of $16,000, realized through the use of precast frame and roof, as against conventional methods.

To initial economy, add concrete's incomparable advantages of lowest annual cost, plus the all-important assurance of utmost fire-safety, and you have the answer to the problems of a school board or anyone else looking for a way to squeeze the utmost out of today's building dollar.

Owner: **LINTON-STOCKTON SCHOOL CORPORATION**, Linton, Indiana

Architects: **DORSTE & PANTAZI**, Indianapolis

Structural Engineer: **FLOYD E. BURROUGHS**, Indianapolis

General Contractors: **REPP & MUNDT, INC.**, Columbus, Ind.

Precast Structural Units: **RISHER READY MIX COMPANY**, Linton, Indiana

'Incor' Cement Supplied by:
MIDLAND BUILDING INDUSTRIES, INC., YARD, Linton
WILKINSON LUMBER COMPANY, Linton

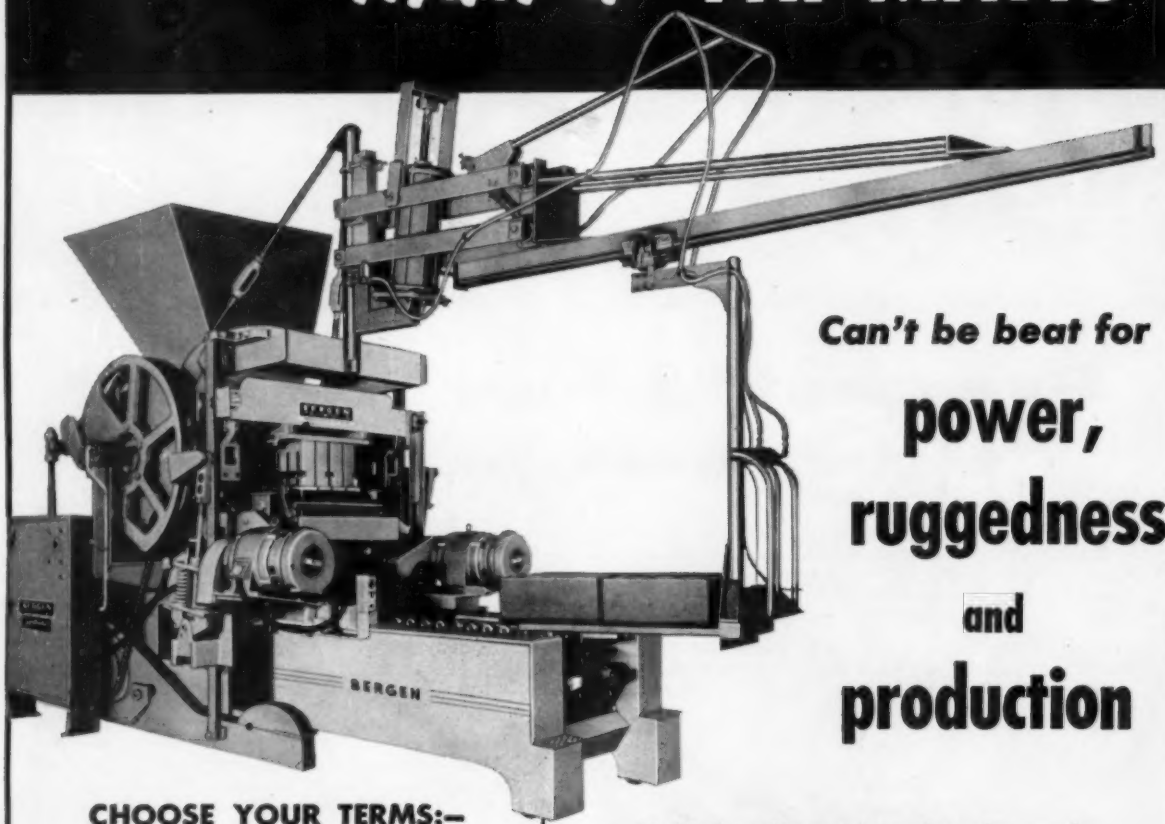
LONE STAR CEMENTS COVER
THE ENTIRE CONSTRUCTION FIELD

LONE STAR CEMENT CORPORATION

Offices: ABILENE, TEX. • ALBANY, N. Y. • BETHLEHEM, PA. BIRMINGHAM • BOSTON • CHICAGO • DALLAS • HOUSTON INDIANAPOLIS • KANSAS CITY, MO. • LAKE CHARLES, LA. • NEW ORLEANS NEW YORK • NORFOLK • RICHMOND • SEATTLE • WASHINGTON, D.C.

LONE STAR CEMENT, WITH ITS SUBSIDIARIES, IS ONE OF THE WORLD'S LARGEST CEMENT PRODUCERS: 21 MODERN MILLS, 45,100,000 BARRELS ANNUAL CAPACITY

NO BETTER Block Machine than a TRI-MATIC



Can't be beat for

power, ruggedness and production

CHOOSE YOUR TERMS:—

1. CASH

2. TIME PAYMENTS

3. "LEASE-WITH-OPTION-TO-BUY" CONTRACT

(NON-ROYALTY, FIXED MONTHLY PAYMENT)

No block machine on the market today exceeds the TRI-MATIC for the essential features of heavy-duty construction, designed for and producing the finest block at maximum speed.

If you want high production, Tri-Matic is designed to run without strain at rates up to 6 mold cycles per minute, yielding an average of 10,000 — 8" equivalent units per typical 10 hour day. If you want power and ruggedness, just check the size of all motors, shafts, pulleys, etc. . . . AND — not one ounce of quality workmanship or material is sacrificed ANYWHERE on a TRI-MATIC.

Compare a TRI-MATIC WITH ANY MACHINE ON THE MARKET—you'll see why the BERGEN TRI-MATIC can't be beat!

BERGEN
MACHINE & TOOL CO., INC.

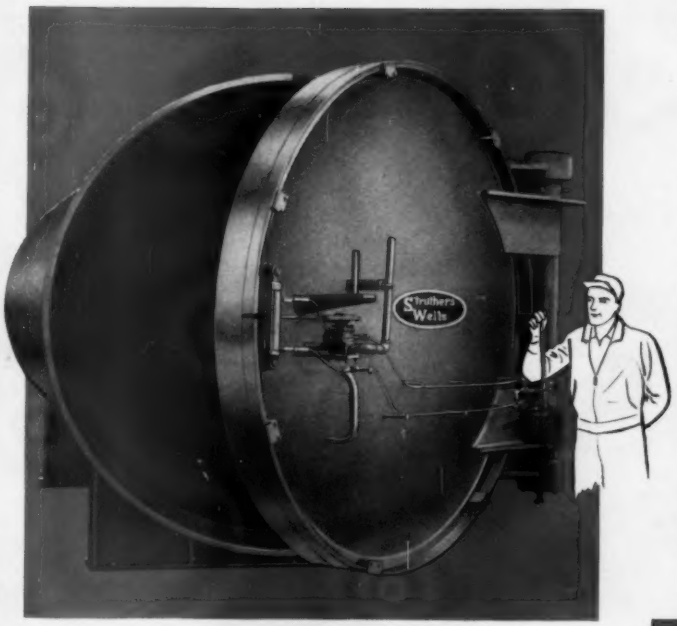
NUTLEY, NEW JERSEY

Cable Address: "BERGENCO" (Nutley, N. J.)

If you are thinking of Autoclaves, STOP HERE!

Insist on Struthers Wells

RING-LOK DOORS



Quick opening... Positive closure!

CONSIDER THESE FEATURES

- Longest gasket life in the concrete block industry
- Seals against vacuum or any pressure up to working pressure
- Locking ring groove is exposed when door is open, allowing for quick and easy cleaning
- Simple, rugged ASME Code construction for trouble-free operation
- Door is furnished with safety interlock device and positive safety system is available
- Low initial cost plus savings in gaskets, maintenance and steam losses means more profit per block

Ideal companion to your new autoclave—the Titusville packaged water tube boiler.

Struthers Wells

Struthers Wells Products

FORGE DIVISION

Crankshafts . . . Pressure Vessels . . . Hydraulic Cylinders . . . Shafting . . . Straightening and Back-up Rolls

MACHINERY DIVISION

MACHINERY for Sheet and Structural Metal Forming . . . Tangent Benders . . . Folding Machines . . . Roller Table and Tumble Die Bending Machines . . . Press Brakes . . . Punching and Notching Machines . . . Forming Dies

PROCESSING EQUIPMENT DIVISION

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BOILER DIVISION

BOILERS for Power and Heat . . . High and Low Pressure . . . Water Tube . . . Fire Tube . . . Package Units

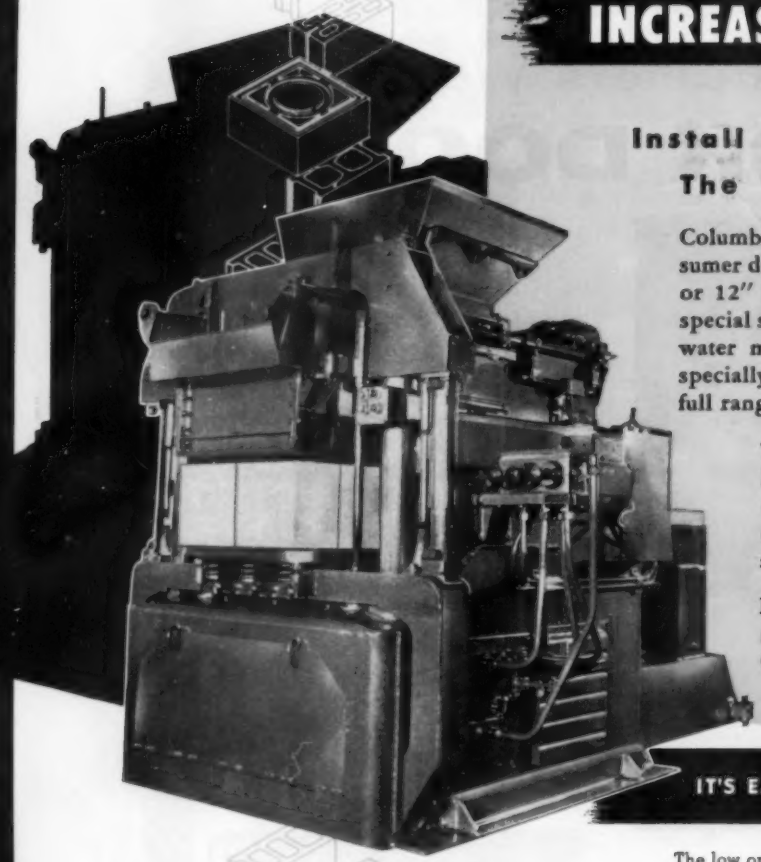
STRUTHERS WELLS CORPORATION

TITUSVILLE, PA.

Offices in Principal Cities — **Plants at Titusville, Pa. and Warren, Pa.**

EXPAND YOUR MARKET

INCREASE YOUR PROFITS!



Install a *Columbia* 12"-HIGH
The "ONE-MACHINE" Block Plant!

Columbia's exclusive 12"-High meets every consumer demand for concrete building units 4", 8" or 12" including an endless variety of popular special shapes 12" high . . . drain tile, silo staves, water meter boxes, Roman and Norman tile, specially designed face block and others . . . a full range of concrete masonry products!

The Columbia Block machine . . . hydraulically activated, electronically controlled, completely automatic . . . operates at 4 to 6 cycles per minute using standard plain pallets.

Make the most profit . . . by making the most of your market . . . with versatile Columbia 12"-High!

Among the concrete block machines on the market today, Columbia's 12"-High gives the highest production per dollar of capital invested . . . and, per square foot of plant space occupied!

IT'S EASY TO OWN A *Columbia* 12"-HIGH

The low original price represents an easily amortized capital investment.

FLEXIBLE "PAY AS YOU DEPRECIATE" TERMS make you the owner of this profitable piece of concrete manufacturing equipment on an easy-to-pay basis.

It you are planning a plant expansion, a new plant, or would like to add concrete block production to your present business, call us and we will have a qualified man in your plant within 24 hours. No obligation. Phone OXford 4-1501. Columbia provides everything you need for complete plant outfitting: three models of block machines: roll-aways; offbearers; cubing return; pallet returns and oilers; racks; pallets; turntables; block splitters; bins; cement silos; skip hoists; batch mixers; hydraulic pumping units.

There is a Columbia representative in your area . . . for information call, write or wire

Columbia MACHINE

HOME OFFICE: 107 S. GRAND, VANCOUVER, WASHINGTON
FACTORY BRANCH AND WAREHOUSE: MATTOON, ILLINOIS
PARTS DEPOT AND OFFICE: BURBANK, CALIFORNIA

MANUFACTURERS AND WORLD WIDE DISTRIBUTORS OF A COMPLETE LINE OF PLANT EQUIPMENT FOR PRODUCTION OF CONCRETE PRODUCTS

JUNE 1957 CONCRETE

VOL. 65, No. 6 • EST. 1904 • PUBLISHED MONTHLY BY CONCRETE PUBLISHING CORP. • 400 W. MADISON ST., CHICAGO 7, ILL. • Central 6-8822

FEATURES FOR THIS MONTH

Up It Goes! 21

Lifting and moving 34, 71-ton beams out of the prestressing bed one at a time to make room for the next cast is a problem. Normally, the solution would involve tying up a large crane. Instead, Prestressed Concrete, Incorporated, sought the aid of Roy N. Hill, consulting engineer with Lakeland Engineering Associates, Incorporated. His solution was a lifting device that required only 8 tons of lift to hoist one end of the huge prestressed girder.

Precast Concrete 22

There are certain recognized advantages and disadvantages involved in construction with precast concrete. These are discussed in an article by R. O. Beauchemin, consulting engineer. This article was originally presented to the National Concrete Products Association at Montreal.

Here's Shadowal 24

National Concrete Masonry Association officially announces shadowal block to the public. Attachments for production of the recessed-face block can be purchased from some of the block machine manufacturers.

600-foot Prestressed Highway 25

Whole sections of this experimental highway are jacked apart to supply tension on the wire strands embedded in the concrete. Metal plates bonded to rubber fill in the gaps of two expansion joints. Result: a 600-foot stretch of prestressed highway.

Developing Professional Drivers 26

If these 16 rules are followed by company drivers, they will become professional drivers, as distinguished from those who just earn their living by driving a truck. By Richard Parisian.

Underground Cover—Editorial 48

It's the editor's view that the recent raft of tornadoes, which have laid havoc to parts of the land, give reason for a rebirth of the old-fashioned basement.

DEPARTMENTS

Industry News 13

Calendar of Events 13

Everybody's Business ...15

Plant Notes 29

Cement Briefs 29

New Literature 30

Book Reviews 31

Sales Clinic 32

Manufacturers' Notes ...34

Manufacturers' News ...38

DOUGLAS LEE, EDITOR

DONALD T. PAPINEAU, Publisher

NBP

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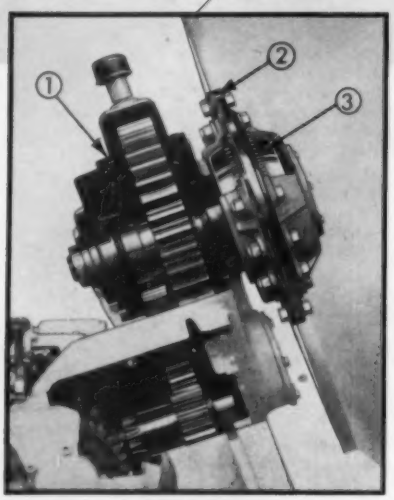
BPA



Drum Drive and Mounting

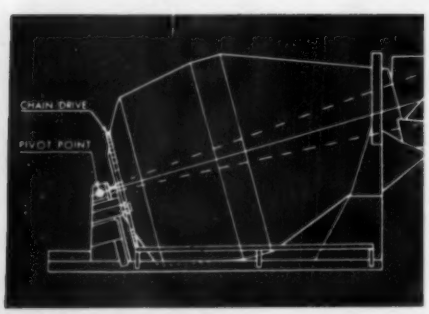
1—Fully-enclosed, centrally-mounted gears drive drum through geared ball-and-socket drum connection. No chains or exposed gears to wear out or break . . . 2—Drum drive plate (bolted to drum head) mounted between two sections of socket . . . 3—Machined ball on drive shaft has curved external teeth which engage internal teeth on drive plate, providing positive drive with universal action.

This Westinghouse Difference Can Mean Money to You . . .

The drums on all transit mixers except Westinghouse are driven either by open chain or exposed rack and pinion. In spite of constant lubrication such drives are subjected to abrasive wear. Also, these drives are subject to severe stresses when mixer travels over uneven ground. Rapid wear and even chain breakage can result. (See sketches below.)

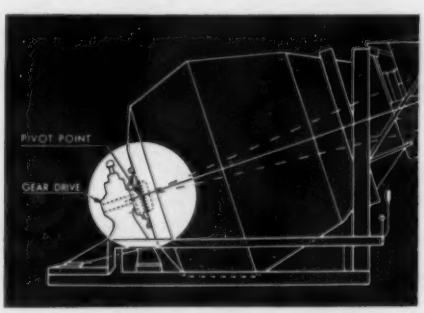
Westinghouse drive gears are fully enclosed—get no more wear and need no more attention than a conventional truck transmission. And—truck frame weaving, when driving mixer over uneven ground, puts no stresses on driving mechanism. Result—less maintenance, less downtime, less chance for breakdown with load of concrete aboard.

With this plus value you get Westinghouse clean-cut design . . . sturdy construction . . . ease of operation and servicing . . . performance equal to any. Let us prove our claims by demonstration on your jobs. Call your local Westinghouse mixer dealer or write now to Westinghouse Transit Mixer Div., LeTourneau-Westinghouse Co., Indianapolis 6, Ind.



Front drum mounting (trunnion) on other mixers is *ahead* of drum drive. Drum misalignment (suggested by dotted lines) puts severe stresses on drive chains or gears.

Ball-and-socket front drum mounting on Westinghouse is *behind* drive gears. Drum misalignment puts no stresses on driving mechanism.



Another First

PRESTO BLOCK

AGAIN SETS THE PACE

for the Concrete Block Industry . . .. with a *Plain Pallet,* "True Air Cavity" Block . . . The New

PRESTO PACER

You Can Benefit by These Pacer Advantages

LOW-COST AUTOMATIC PRODUCTION with regular plain steel pallets on the world's most advanced hydraulically-operated, electronically-controlled block machines at 4 to 6 cycles per minute (depending upon the type of aggregate used). The Presto PACER block can be manufactured at low cost in 4-inch, 8-inch, or in popular 12-inch heights at the same speed and with the same aggregate—as standard masonry units.

HIGHER YIELD PER SACK OF CEMENT. With a sand and gravel mix, a sack of cement yields more than 35 8" x 8" x 16" PACER blocks . . . each weighing, at 1200 psi, approximately 37 pounds. The Presto PACER is the lightest 8" x 8" x 16" masonry unit made today using sand and gravel mix!

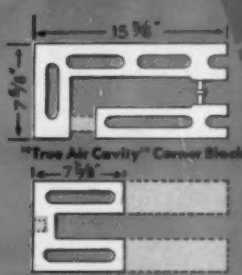
ONLY TWO SPECIAL MOLDS, in any given height, are required to make "true air cavity" stretcher, corner and sash units. Molds for units 4" to 12" high, inclusive are available.

A "TRUE AIR CAVITY" BLOCK that answers industry's need for twin wall construction with a single construction unit.

ECONOMICAL—FAST, EASY ERECTION. The single unit, modular Presto PACER lays up fast to create a complete twin wall in one operation with lower in-the-wall costs.

COMPLETE TWIN WALL INSULATION WITH A SINGLE UNIT

Each Presto PACER block is actually a miniature twin wall in itself . . . comprised of two separate blocks united in the normal production cycle by automatically inserted malleable iron ties. Each corrosion-resistant tie is designed with a drip guard to keep moisture away from the walls.



One mold built with interchangeable parts will produce the corner block, single flush or sash, ½ flush or sash, and lintel block.

A SMALL INVESTMENT WILL PUT YOU IN THIS HIGHLY PROFITABLE FIELD TODAY.

NOW—write, wire or phone for complete franchise manufacturing information. Give us the name and model of the machine you have.

MEMBER NCMA

PRESTO BRICK MACHINE CORPORATION

Empire State Building • New York 1, New York

Phone PEnnsylvania 6-1353-4-5-6-7

© 1957 Presto Brick Mach. Corp.

A The only truck mixer with SWING-IN HOPPER for FASTER NO FLASH-BACK CHARGING of low slump aggregates
A ...with HOPPER THAT SWINGS OUT- permitting FAST UNOBSTRUCTED DISCHARGE of even "0" slump concrete
A LARGE DRUM HEAD- DIAMETER deeper "L" section blades for BETTER MIXING of stiff low- slump mixes
The one truck mixer with CMC FLOATING DRIVE which eliminates troubles of ordinary rigid drives A

...you've a pat hand for **PROFITS** *on any low-slump concrete jobs, too...*

...when you work

NEW TRANSCRETES

THE CHANGING PICTURE!

No doubt about it . . . a big share of tomorrow's business will be tied into the road building program — pouring on super highways, clover-leafs, and incidental structures, as well as bridges and culverts.

CALL FOR LOW SLUMP CONCRETE

These jobs call for low slump concrete — and only the man that has the *right* equipment WILL GET THE CALL.

YES, TRANSCRETES ARE THE ANSWER!

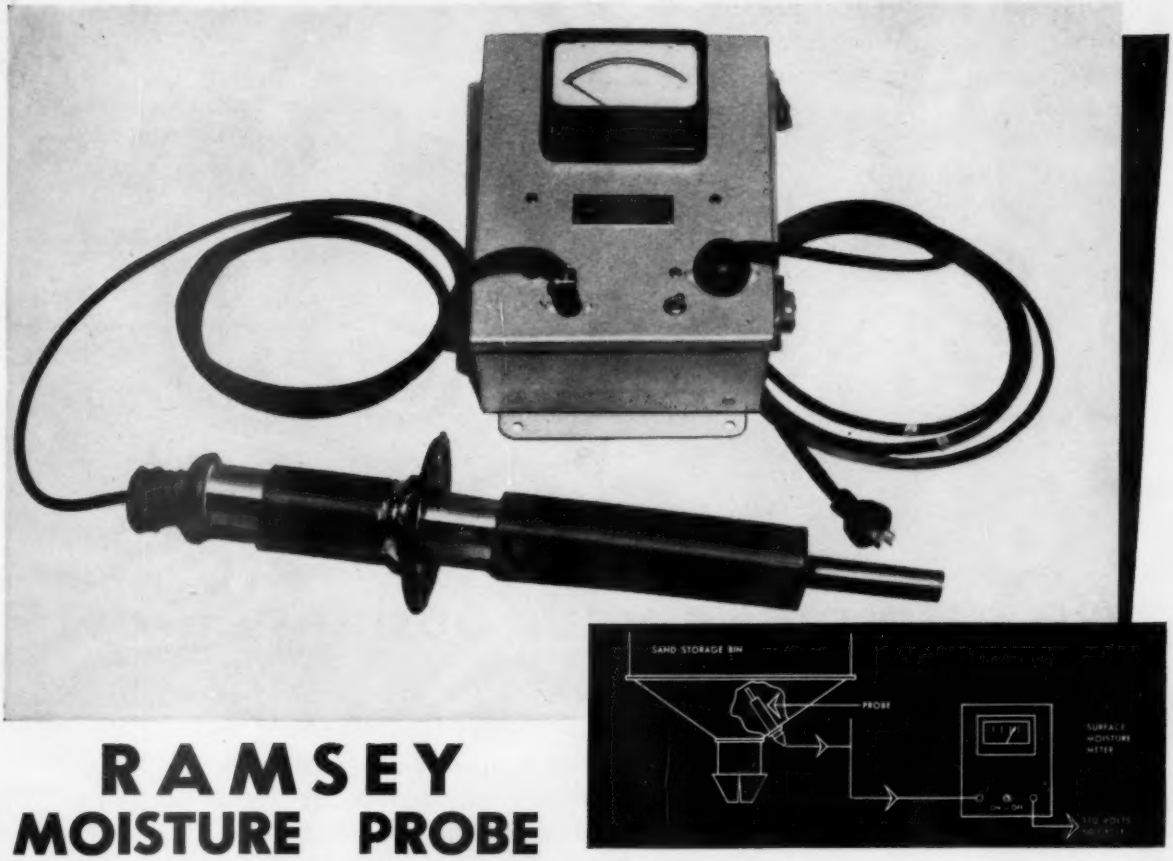
Long famed for mixing ability, TRANSCRETES are a natural for any low slump job. When you consider all of the other advantages — quality, long life construction . . . simple, more compact design . . . better weight distribution . . . maximum payload . . . greater maneuverability, *the logical choice is TRANSCRETE.*

• • • • •

TED (Truck Engine Drive)–5 to 7 yard sizes. . . Separate Engine Models, 4 to 7-yards mixing capacity.

Learn why Transcretes make you bigger profits...
write for these **2 TRANSCRETE BULLETINS**

CONSTRUCTION MACHINERY COMPANY, Waterloo, Iowa



RAMSEY MOISTURE PROBE

for controlling moisture in ready mix

Moisture Analysis is • CONTINUOUS • RELIABLE • INEXPENSIVE

"Ready Mix" made from sand containing an unknown amount of water cannot be properly formulated! Compute "your" formula on dry weight!

A correction chart supplied with each meter permits easy conversion to dry weight batching! Additional water requirements can be metered correctly!

The electronics meter measures the surface moisture of the sand around the probe. The probe is installed in the hopper just ahead of the discharge gate, where it measures the moisture of the material actually being used. The meter is mounted in a dust tight case 8 x 10 x 4 inches deep. It will measure surface moisture of sand up to 20 percent. The probe projects into the sand approximately one foot from the outer surface of the hopper. The entire installation can be made in less than an hour by your own maintenance man.

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Forrer's
PRODUCTS FOR MASONRY

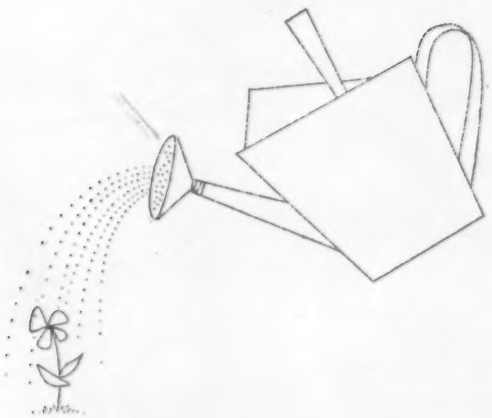
We furnish complete instructions.

PRICE.....$295.00 f.o.b. St. Paul

Distributed by FORRER'S, 2225 N. Humboldt Ave., Milwaukee 12, Wis.

Manufactured by RAMSEY ENGINEERING CO.

MASONRY MANUFACTURERS! *If you want more new construction business, this advertisement will be of service to you—because . . .*



We help make your business grow

Unless you know what's going to be built, trying to get business in the new construction field is like planting seeds at random — you can't be sure what, if anything, is going to come up, where or when. Dodge Reports won't make your flowers sprout, but these timely, accurate, daily reports will help make your business grow. How? Read and mail the coupon in, and we'll tell you.

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Yes! I'd like to pin-point my prospects by knowing in advance who's going to build, what, when, where.

I want to know whom to contact and when to submit bids.

I'd like to see some Dodge Reports, and I'd like a copy of your booklet that tells how to use this accurate, daily, up-to-the-minute construction news service.

I understand that I can pick just the area in the 37 Eastern States and the type of construction activity that interests me. Also, that I won't have to wade through mounds of data to find the information I need.

I'm interested in General Building ☐ **House Construction** ☐ **Engineering (Heavy Construction)** ☐

in the Following Area: _____

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ADDRESS _____

CITY _____ ZONE _____ STATE _____

Dodge Reports
For Timed Selling to the Construction Industry

SMITH "CONCRETE FACTORY" ON WHEELS ROLLS IN NEW PROFITS

* Here's your answer to the problem of the low slump, "inspection type" concrete needed for tomorrow's jobs. This new Smith mixer, with the most modern drum ever designed, is your best buy — for these reasons:

PRODUCTION

Cone and feed chute let materials "hurdle" over first spiral of blades to the big diameter section of drum. Materials can't lose momentum by dropping ahead of the first blade.

CONTROL

You get absolute control over your mix, in addition to fast, smooth discharge regardless of slump. This is because of the patented "T"-shaped blades plus Smith's multi-speed transmission.

QUALITY

All materials are *double mixed* by a true flow action — the most positive, complete mix of any high discharge mixer made. More area in the big diameter section gives more movement per revolution to each batch.

low maintenance cost

Drums last longer — they're built of Manten steel with a cast steel drum head. Blades, also of Manten steel, have a hard surface coating welded to *both* fins.

available now in your choice of sizes

THE T. L. SMITH COMPANY

Since 1900, the pioneer designer and foremost manufacturer of the world's finest mixers.

SMITH

Milwaukee 1, Wisconsin • Lufkin, Texas

affiliated with Essick Manufacturing Company, Los Angeles, California.

4 trucks or 40

2-way radio means more profit for any size fleet!

If you've thought 2-way radio was only good for the big ready-mix operator with dozens of trucks—take a look around. Some of the most enthusiastic radio users have fleets of fewer than 10 mixers.

It isn't the number—it's the *efficiency* that tells the profit story. Radio dispatching helps you run trucks at peak productivity by trimming out the wasted miles and minutes.

Check these ways a Motorola 2-way radio communication system can save you money and bring in new business:

- ***By rerouting mixers, when necessary, to alternate customers—on short notice, while trucks are en route.***
- ***By freeing your heavy trucks from partial loads.***
- ***By releasing pre-mix plant crews immediately following the day's final pour.***
- ***By slashing down-time on disabled mixers through speedy repairs.***
- ***By giving better service to contractor customers via radio relay of instructions.***
- ***By eliminating all telephone calls from drivers.***

When you are buying radio, you'll soon see why ready-mix companies choose Motorola *more often* than all others *combined*. One big reason is that it's built for rugged use —designed to *outlast* several trucks. Let a Motorola Engineer show you the many other reasons why Motorola tops the field. He'll also show you how Motorola 2-way radio will quickly pay for itself by cutting costs . . . then go on to earn extra profits for you every year. Write, phone, or wire TODAY.

MOTOROLA

2-WAY RADIO

MOTOROLA COMMUNICATIONS & ELECTRONICS, INC.
A SUBSIDIARY OF MOTOROLA, INC.
4501 AUGUSTA BOULEVARD • CHICAGO 51, ILLINOIS

Motorola consistently supplies more mobile and portable radio than all others combined.
Proof of acceptance, experience and quality.
The only COMPLETE radio communications service—specialized engineering . . . product . . . customer service . . . parts . . . installation . . . maintenance . . . finance . . . lease.
"The best costs you less—specify Motorola."

INDUSTRY NEWS

Industrial Advancements Were Topics of Speakers At American Concrete Pipe Association Convention

Discussions and talks by industry members and two guest speakers were high lights of the March convention of the American Concrete Pipe Association at Washington, D. C. Interest centered around new specifications for concrete pipe, hydraulic studies on culvert and sewer junctions, new design criteria for load and hydraulic computations, and studies of gasket specification for coupling concrete pipelines.

The business agenda included revision of the curriculum of the Association School to devote alternate years to sales training and manufacturing instructions.

Officers re-elected to their respective positions were Carl A. Bluedorn, Ziedler Concrete Products Machinery, Waterloo, Iowa—president; E. F. Bespalow, Choctaw, Incorporated, Memphis, Tennessee—vice-president; John H. Bailey, Cretex Companies, Incorporated, Elk River, Minnesota—secretary; and Craig J. Cain, Continental Concrete Pipe Corporation, Chicago—treasurer. Two new vice-presidents were elected to office: J. W. Corson of American-Marietta Company, Chicago, and Peter Van Kuran of American Pipe and Contstruction Company, Los Angeles.

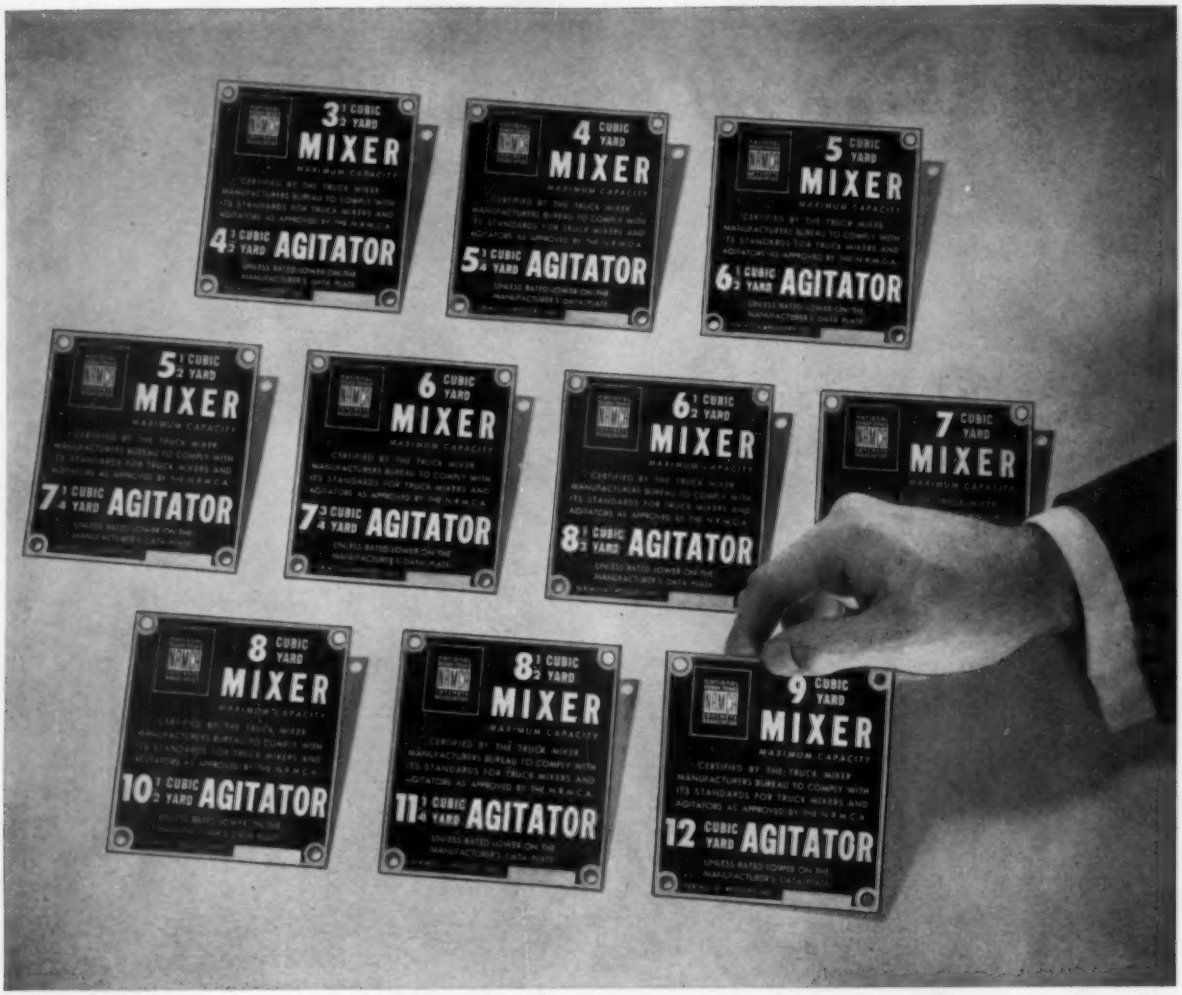
New directors of the association are Harry W. Heath, Lock Joint Pipe Company, East Orange, New Jersey; H. T. Rex, Superior Products Company, Detroit, Michigan; and Joseph S. Jones, Bancroft and Martin Rolling Mills Company, South Portland, Maine. Also, Guiton Morgan, Austin Concrete Works, Incorporated, Austin, Texas, will replace retiring director T. D. McGinnis, Texas Concrete Works, Waco, Texas.

● 1957 board members of ACPA are, seated from left: Craig J. Cain, Continental Concrete Pipe Corporation, Chicago—treasurer; E. F. Bespalow, Choctaw, Incorporated, Memphis, Tennessee—vice-president; Carl A. Bluedorn, Zeidler Concrete Products Machinery Company, Waterloo, Iowa—president; John H. Bailey, The Cretex Companies, Incorporated, Elk River, Minnesota—secretary; and Eliot E. Brainard, representing Peter Van Kuran, vice-president, both of American Pipe and Construction, Los Angeles. Standing, from left, are directors Drew H. Lander, Shearman Concrete Pipe Company, Little Rock, Arkansas; Harry W. Heath, Lock Joint Pipe Company, East Orange, New Jersey; Joseph S. Jones, Bancroft & Martin Rolling Mills Company, South Portland, Maine; W. Lyle McDaniel, Massey Concrete Products, Chicago; and H. Tom Rex, Superior Products Company, Detroit, Michigan.

Calendar . . .

1957

JUNE 16-18	Florida Concrete and Products Association — 1957 Annual Convention — Golden Gate Hotel — Miami Beach, Florida.
JUNE 16-21	American Society For Testing Materials—1957 Annual Meeting—Chalfonte-Haddon Hall—Atlantic City, New Jersey.
JUNE 18-19	Ohio Ready Mixed Concrete Association — 1957 Annual Meeting—Sheraton-Gibson Hotel — Cincinnati, Ohio.
JUNE 21-23	Concrete Products Association of Washington — 28th Annual Summer Meeting — Harrison Hot Springs Hotel — British Columbia.
JUNE 23-29	2nd International Congress of Precast Concrete — Machinery Convention — Wiesbaden, Germany.
24-25 JUNE	Wire Reinforcement Institute — Spring Meeting — The Greenbrier — White Sulphur Springs, West Virginia.
JUNE 24-29	Concrete Reinforcing Steel Institute — 33rd Annual Meeting — The Greenbrier — White Sulphur Springs, West Virginia.
JULY 10-15	National Concrete Masonry Association — Mid-Year Board of Directors and Committee Meetings — Manoir Richelieu — Murray Bay, Quebec, Canada.
JULY 29-AUGUST 2	University of California in Cooperation with The Prestressed Concrete Institute, International Federation de la Precontrainte, American Concrete Institute, American Society of Civil Engineers—International Conference on Prestressed Concrete — San Francisco, California.
JULY 29-AUGUST 2	Prestressed Concrete Institute — Third Annual Meeting — San Francisco, California.
AUGUST 25-31	National Ready Mixed Concrete Association — Semi-Annual Board of Directors' Meeting — Manoir-Richelieu — Murray Bay, Quebec, Canada.


3½ CUBIC YARD MIXER
4½ CUBIC YARD AGITATOR
4 CUBIC YARD MIXER
5¼ CUBIC YARD AGITATOR
5 CUBIC YARD MIXER
6½ CUBIC YARD AGITATOR
5½ CUBIC YARD MIXER
7¼ CUBIC YARD AGITATOR
6 CUBIC YARD MIXER
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6½ CUBIC YARD MIXER
8½ CUBIC YARD AGITATOR
7 CUBIC YARD MIXER
8 CUBIC YARD MIXER
10½ CUBIC YARD AGITATOR
8½ CUBIC YARD MIXER
11¼ CUBIC YARD AGITATOR
9 CUBIC YARD MIXER
12 CUBIC YARD AGITATOR

Your choice is complete

New standards provide a size of truck mixer for every condition and need

On May 1, 1957, the above ratings were established as standard for truck mixers and agitators.

With these 10 sizes (3½ to 9 cubic yards as mixers, (4½ to 12 cubic yards as agitators) it is possible for every user to realize the maximum payload potential of today's trucks consistent with his own requirements and the conditions and weight laws under which he operates.

Note that truck mixer ratings have been simplified by eliminating the former system of both "rated" and "guaranteed" capacities. Only a "maximum" capacity is now given. This maximum capacity corresponds to former "guaranteed" capacity without change in the drum volume requirements which have been used, proven and officially accepted for nearly four years (since September, 1953).

Replacement Plates, Printed Standards

Owners of truck mixers carrying Bureau rating plates of 3 - 3½ and larger sizes may now replace them with new plates obtainable, without cost, from the Bureau.

Copies of the new standards, which also include more exacting requirements for mixing time, water measuring tanks and pumps, are offered to architects and engineers who help to maintain these high standards by writing them into their concrete specifications. Please address your request to the TRUCK MIXER MANUFACTURERS BUREAU, Munsey Building, Washington 4, D. C.

Member Companies

BLAW-KNOX CONSTRUCTION EQUIPMENT DIV.
Mattoon, Ill.
CHAIN BELT COMPANY
Milwaukee, Wis.
CHALLENGE MANUFACTURING CO.
Los Angeles, Calif.
CONCRETE TRANSPORT MIXER CO.
St. Louis, Mo.
CONSTRUCTION MACHINERY CO.
Waterloo, Iowa
THE JAEGER MACHINE COMPANY
Columbus, Ohio
THE T. L. SMITH COMPANY
Milwaukee, Wis.
WESTINGHOUSE TRANSIT MIXER DIV.
Indianapolis, Ind.
WHITEMAN MANUFACTURING CO.
Pacoima, Calif.
WILLARD CONCRETE MACHINERY CO., LTD.
Lynwood, Calif.
WORTHINGTON CORPORATION
Plainfield, N. J.

New President Is Elected By Vermiculite Institute

C. H. Wendel

When elections were held at Fort Lauderdale, Florida, during the 16th annual convention of Vermiculite Institute of Chicago, Harvey W. Steiff of Minneapolis, Minnesota, handed the presidential gavel to C. H. Wendel of Los Angeles, president of California Zonolite Company. Walter J. Bein of Chicago was re-elected treasurer, and William V. Culver, manager of Vermiculite-Northwest, Incorporated, at Seattle, Washington, was named to the board of directors.

One of the speakers at the convention, Stanley K. Robinson, chairman of the institute's insulation committee, disclosed that a recent survey shows a growing use for vermiculite as insulation for hollow core blocks. Mr. Robinson reported that this use of vermiculite doubles the insulation value of the wall, regardless of the type of aggregate used in making the block.

C. A. Pratt, vice-president of Western Mineral Products Company at Minneapolis, Minnesota, discussed the application of vermiculite concrete roof decks. He included a report that the industry's sales of concrete aggregate for precast products increased 71 per cent during the past four years.

■

Two Engineers Join Staff of United Concrete Pipe

Oliver W. Kilham, former vice-president in charge of operations with American Pipe & Steel Corporation, has been appointed project engineer with United States Concrete Pipe Corporation, Baldwin Park, California.

Another appointment announced by the company is that of Harry A. Fischer to the post of industrial engineer. Mr. Fischer was formerly chief industrial engineer with Dresser Industries of Los Angeles. Mr. Kilham and Mr. Fischer will serve the 17 United Concrete Pipe plants throughout the West.

Everybody's Business

TAXES

- The principle of pegging depreciation at the present market value of assets was given a boost recently. A rate hike based, to an extent, on providing money to replace property at today's higher market price was allowed the Indiana Telephone Corporation by the Indiana Public Service Commission.
- A plan to decrease the tax paperwork required of businesses is up before Congress again. This proposal would allow employers to file only one annual detailed report on employee income and withholding tax. A quarterly tax report would still be necessary, but the listing of individual earnings wouldn't be required.
- A third of the average family's income goes out in taxes, according to a report in *American Machinist*. Tax experts report there are 151 taxes on a loaf of bread, 100 on an egg, 116 on a man's suit, 150 on a woman's hat, and 600 on a house.

PRICES

- Wholesale price of gasoline is falling in a number of areas along the Gulf Coast, but, for the present, this slight drop is not expected to be reflected at the retail level.

INCOMES

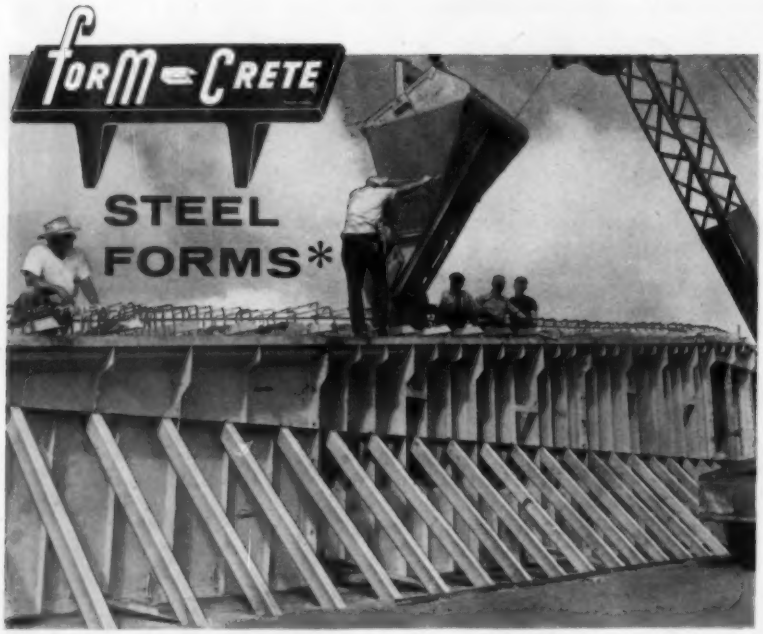
- Personal income during the month of April was at an all-time record annual rate of $339.3 billion, according to the Commerce Department.

MATERIALS

- Order-delivery lag on structural steel shapes has decreased recently from 24 to 20 months, according to Federal road officials.

BUSINESS

- Depending upon his specific areas of industry interests, the analyst or economic spokesman's terminology varies as he tries to summarize this period between the highs of '55 and '56 and the somewhat questionable future. Recently, the vogue has been to term the present as "the lull."
- A portion of the reasoning behind this somewhat vague appraisal is the continuing hope of many businessmen that the future will be bright again. This may prove true—credit may become easier to obtain—and, as a result, people will start to purchase homes, cars, furnishings, and other items in increasing numbers.
- But, in the meantime, bankruptcy cases filed in the courts of the U.S. are expected to reach an all-time high for the fiscal year ending June 30, 1957.
- Heavy construction awards for the first 19 weeks of 1957 total $6,888.6 million, down 20 per cent from the corresponding period in 1956, according to *Engineering News-Record*.
- Housing starts during the month of April were 17 per cent below last year's figure for this month. Also, April's starts were running at a lower level than any previous April since 1949. This was the second month in a row in which the starts were lower than the corresponding months in 1956, 1955, 1954, 1953, 1952, 1951, and 1950.
- Most manufacturing concerns admit that they are trying to cut down on their inventories. But, at the same time, many wholesalers and retailers similarly are trying to whittle down their stocks of goods. The end result is that, with fewer goods going out the door to the consumer, inventories still are rising—though, with the cutbacks, at a slower pace than previously.



* specially designed to cast huge

PRESTRESSED CONCRETE ROOF GIRDERS

for **American Cyanamid's** new phosphate storage warehouse

Working closely with Prestressed Concrete, Inc., Florida Division's Form-Crete engineering staff supplied special mass-production steel casting side forms to produce prestressed concrete griders for supporting the roof of American Cyanamid's new triple phosphate storage plant at Brewster, Florida.

This is a typical example of the capability of our Form-Crete consultant service in supplying custom designed and fabricated steel forms to meet your requirements for specialized projects.

Important as this service is, our main objective is the supplying of skillfully designed and engineered steel poured-in place and semi-portable side forms for flat bed casting. Fabricated to order, there is a Form-Crete form for virtually every standard prestressed concrete product.

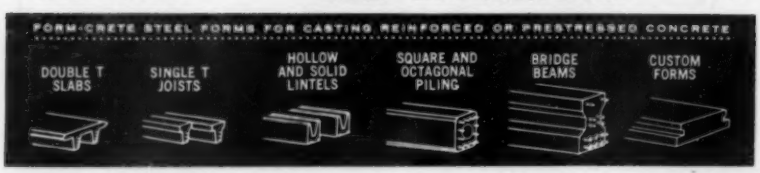
Investigate this highly profitable new market—the prestressed concrete product field with its unlimited applications... write, wire or phone today—get into the prestressed concrete business now with FORM-CRETE steel casting forms!

These girders are 101 ft.-6 in. long with a height of 12 ft. at the center tapering to 4 ft. at the ends. Top slab width is 3 ft.—weight 71 tons.

Send for
BULLETIN 200

FOOD MACHINERY
AND CHEMICAL CORPORATION
FLORIDA DIVISION
LAKELAND, FLORIDA

PF-8



Prestressed Industry Booms Along in 1956

Prestressed concrete, according to an estimate, jumped into the $200 million a year bracket as an industry last year. This figure was double the volume in 1955 and eight times that recorded in 1954.

The Prestressed Concrete Institute says the number of manufacturers producing prestressed concrete in the U. S. was more than 165 last year. Five years ago, the figure for the number of producers stood at zero.

Industry estimates for the potential are that by 1960 prestressed concrete will account for 25 per cent of all concrete work put in place in this country.

■

Cement Supply Overcomes Demand, for Now at Least

Cement shortages, one of many material shortages that just a year ago plagued the concrete producing and the construction industries, seems to have been eliminated in most areas.

According to a survey presented to the 38th annual convention of the Associated General Contractors, only three instances of short supply—none of them causing serious delays—have been called to their attention in recent months. These three areas of reported shortage were Iowa, Texas, and Virginia. The report further indicated supply would exceed demand in 1957.

■

Growing Canadian Cement Industry Raises Problems

Despite January predictions that Canada will have enough market in 1958 for its expanding cement industry, Canada Cement Limited of Woodstock, Ontario, sounded a pessimistic note recently, according to the Toronto *Financial Post*.

In view of the number of cement plants now under construction in Canada, the company believes that excess capacity may result for the next few years. The company suggested that an aggressive promotion campaign and intensive sales effort may be necessary to sell the total output of its mills.

We Dare Them to Try Some of These in Their Stoves

The Grand Rapids Herald reports that one of Mexico's road improvements is the construction of concrete road signs with luminous paint letterings. It seems that wooden signs, previously used, were pilfered by the country people for use as firewood and building material.

■

PCA Names F. Parris to Public Relations Post

Fred Parris of Topeka, Kansas, has been appointed by the Portland Cement Association as public relations representative in the Kansas district. The announcement was made by H. G. Garner, Kansas district engineer for the company.

Mr. Parris has been active in public relations, newspaper, radio, and promotion work for more than 15 years. Since 1953 he has been with the Kansas Industrial Development Commission as director of the public relations and tourist divisions.

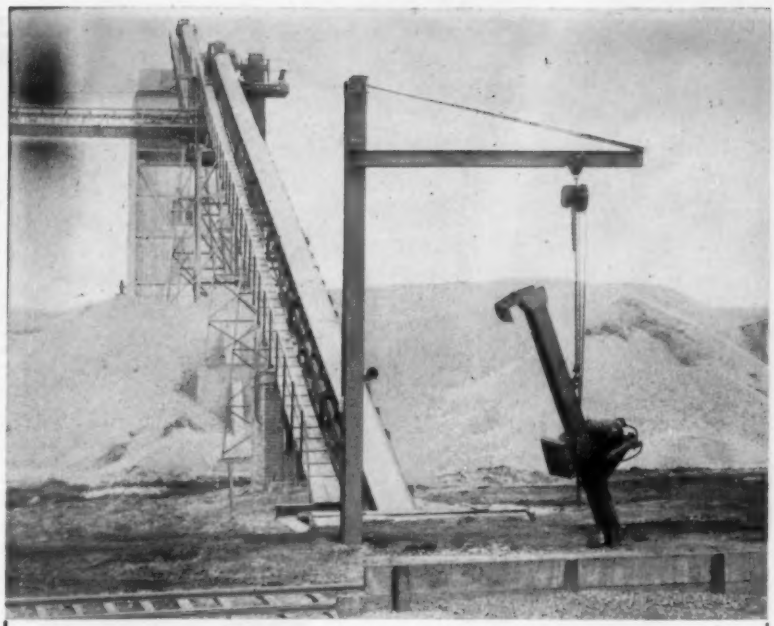
■

Conference on Prestressed Concrete Begins July 29

The department of engineering and the university extension of the University of California are cooperating with industrial and professional organizations to present a world conference on prestressed concrete. It will be held July 29-August 2 in the Fairmont Hotel at San Francisco.

The conference brings together scientists, engineers, architects and manufacturers from many countries who will participate in presenting technical papers, films, and panel discussions. Industrial exhibits, prepared by members of the Prestressed Concrete Institute, will be open to those attending the conference. On the schedule is a full day field trip to prestressing plants and construction sites in the San Francisco Bay area.

Registration and hotel information is available from the University of California, University Extension, Berkeley 4, California.



Increase your profits with *efficient* car unloading

If unloading aggregates requires several men working in railroad cars, it's time that you investigate the National Car Shaker. Keep your men on their regular jobs. Only *one* man operates the National; but with it, he unloads cars faster by many minutes.

The result is greater profits for you.

The National Car Shaker combines low cost with the best engineering principles — all-welded box girder frame, patented rubber-to-rubber motor mount, hardened bolts and nuts, and triple V-belt drive.

The first National produced is still in daily use after eight years of the roughest work.

Write for full information on the profit-making National Car Shaker today — right now!

NATIONAL CONVEYOR

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358 N. Harding Ave. Chicago 24, Ill.

One of five F-55 Feeders feeding sand and gravel to belt conveyor that supplies batching bins in concrete plant.

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VIBRATORY FEEDERS

Reduce costs—Increase production.

Syntron builds a line of bulk material feeders designed for versatility, flexibility, dependability and long lasting service.

The output of Syntron Vibratory Feeders can be regulated to match the capacities of mixers, batchers, screens, conveyor belts and other processing equipment. Their wide range of material flow from a few pounds to hundreds of tons per hour, can be controlled automatically by your operation—response to changes in production schedules is immediate, adjusting material flow to fit the job. Syntron's years of experience in the bulk materials handling field assures peak performance under almost every condition with almost every type of material —damp or dry, hot or cold, fine sand and cement or coarse gravel with a minimum of maintenance. Write, giving the details of your materials handling problem and our engineers will work with you in selecting the proper feeder.

Builders of Quality Equipment for more than a Quarter-Century.

Other SYNTRON Equipment of proven Dependable Quality

MASS CONCRETE VIBRATORS

VIBRATING CONCRETE FLOATS

TEST SIEVE SHAKERS

Write for complete catalog data — FREE

SYNTRON COMPANY
324 Lexington Ave. Homer City, Penna.

NCMA Produces TV Spots; Offers Them to Members

Spot television commercials, either 20 or 60 seconds in length, and showing block enhancing a variety of structures in and around the home, can be purchased by members from the National Concrete Masonry Association.

Some of the choices of block usage available in film strips are: a garage, fireplace, patio and outdoor fireplace, outdoor grill, garden wall, and interior and exterior walls in homes.

Cost of the films is $10 for the 20-second spots, $15 for those of 60 seconds duration. Each commercial allows time for incorporation of the individual company's name and address.

■

Besser School Announces Next Six-Month Schedule

Karl Nensewitz, director of the Besser school for block makers and users, has announced the program for the final six months of 1957. Two types of courses are being offered. A general course provides training in all phases of block production for plant owners, managers, superintendents and foremen. Special courses present a more complete study of particular phases of interest to maintenance personnel, and machine and mixer operators as well.

The general course will be offered on the following dates: July 15-20, September 16-21, and November 4-9. Scheduling of the special courses is as follows: August 12-17—Mechanical & Electrical; October 7-12—Materials & Methods & Electrical; and December 9-14—Mechanical & Electrical.

More information is available from Mr. Nensewitz at Besser Company, Alpena, Michigan.

■

Concrete Block Produced Could House Four Cities

According to the National Concrete Masonry Association, enough concrete block was produced in 1956 to build homes for the combined populations of Detroit, Cleveland, Philadelphia, and St. Louis.

Cement Production

February 1957 production and shipments of finished portland cement were down nine per cent and five per cent respectively from February 1956, according to the Bureau of Mines, United States Department of the Interior. One hundred fifty-six plants in 37 states and Puerto Rico reported a production of 17,860,000 barrels during Feburary 1957. Shipments in this month totaled 15,116,000 barrels as compared to the 15,929,000 barrels of February 1956.

A corresponding decrease in production is shown in the January-February period in 1957. The 37,168,000 barrels produced is nine per cent lower than the 41,018,000 barrels produced in that period in 1956.

Mill stocks of 32,390,000 barrels of finished portland cement were on hand February 28, 1957. This is an increase of 12 per cent over the 28,939,000 barrels on hand February 29, 1956.

■

Helps Set Up Junior Achievement Program

Max H. Miller, United Cement Products Company, Wichita, Kansas, has been chosen to head a group of Wichita businessmen who will provide the impetus behind a program of Junior Achievement in that city. A $25,500 budget, provided by the group, will equip a work center for the program, under which high-school-age people can form their own companies to manufacture products. Mr. Miller is chairman of the promotion committee of the National Concrete Masonry Association.

■

ASTM Convention Will Be Five-Day Study Session

Atlantic City, New Jersey, will be the setting for the 60th annual meeting of the American Society for Testing Materials, from June 17 through 21, 1957. These five days will be given over to 32 symposia and lectures on 13 fields of materials technology.

Two evening sessions will be devoted to the methods for testing concrete and specifications for quality control. Included is a report on the performance of concrete truck mixers.

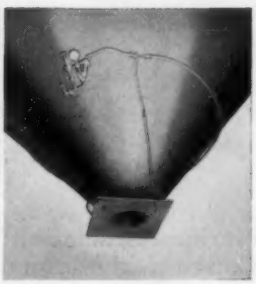
Clamshell Buckets — For charging bins, stockpiling, use a Johnson wide-rehandling Clamshell — all-welded, smooth inside and out, fast-filling, quick-cleaning. Manganese cutting edge toughens with use. Sizes: ⅜ to 2 yds. Other types, sizes up to 3 yds.

What's your material-handling problem?

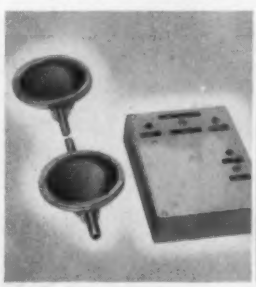
On ready-mixed concrete operations, or on bulk sales of sand and stone, a small equipment item can often make a big difference in your material-handling efficiency *and profit*. Better take an inventory of your plant *right now*. As a starter, check the low-cost aggregate and cement-handling equipment shown here. Then see Johnson distributor for more ideas — or use coupon to get additional information by mail.

Yard Bin
is ideal for loading trucks where no batcher is required. 9-ft. clearance under discharge gate. Holds 35 cu. yds.

Rotary Vane Compressor
supplies 7 cu. ft. of air pressure per minute to aerate cement silos and bins. Has 15-pound limit-relief valve.



Aeration Fittings
for storage silos, bins, keep bulk cement free-flowing. A moisture trap and pressure-reducing valve are included.



Bin Gauge Signals
automatically indicate high-low levels of storage silos, bins. Signal box can be located wherever convenient.

Tunnel Gate
a single radial clam gate for stockpile reclamation. Skirt board is hinged — it opens and locks in any position.

Belt-Conveyor Idlers
of all-welded steel construction, precision ball bearings, metal grease seals, and large internal grease reservoirs.

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C.S. JOHNSON CO., CHAMPAIGN, ILL. *(Koehring Subsidiary)*

Send details on: ☐ Clamshells ☐ Yard Bin ☐ Compressor ☐ Aeration Fittings ☐ Signals ☐ Tunnel Gate ☐ Belt Conveyor Idlers

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FOR YOUR STRUCTURAL PROBLEMS...
CONSULT AN ENGINEER
R. H. WRIGHT & SON
POMPANO HIGHLANDS
DANIA
FORT LAUDERDALE
Wright public service messages like this one are appearing in:
THE FLORIDA ARCHITECT, THE FLORIDA BUILDING JOURNAL, and newspapers.

1st STEP TO SUCCESSFUL BUILDING...
CONSULT AN ARCHITECT
R. H. WRIGHT & SON
POMPANO HIGHLANDS
DANIA
FORT LAUDERDALE
Wright public service messages like this one are appearing in:
THE FLORIDA ARCHITECT, THE FLORIDA BUILDING JOURNAL, and newspapers.

Public Service Advertising

● These two full page ads, run by R. H. Wright & Sons in Florida newspapers and building publications, served a multitude of objectives: they gained good will for R. H. Wright among members of the two professions, acquainted readers with the functions and training of the architect and engineer, and told both contractors and members of the two professions of the variety of products handled by the organization.

Florida Association Will Convene at Miami Beach

The next annual convention of the Florida Concrete and Products Association will take place in the Golden Gate Hotel at Miami Beach on June 16, 17, and 18, 1957.

Neilson Jones, president of the association, announced that all suppliers to the industry are invited to attend, as well as non-members. A program of pertinent information on technical matters will be presented.

● J. E. Offut, far left, executive secretary of the Oklahoma Ready Mixed Concrete Association, talks over highway specifications with officers of the newly organized Kansas Ready Mixed Concrete Association. From left: Vic E. Baum, Great Bend, Kansas, president; Walt Keeler, Wichita, Kansas, vice-president; and Claude M. Rhoades, Newton, Kansas, chairman of the highway committee.

● Left: Roy N. Hill points to lifting device's threaded clevis which supports one end of the huge 71-ton girder.

Up It Goes!

● Above: a 71-ton beam stretches out behind the lifting device. Each beam is 100 feet long.

How to lift and move 71-ton beams without tying up a crane, that was the problem confronting Mr. Floyd L. Furnell, president of Prestressed Concrete, Incorporated.

The order required production of 34 beams, each 100 feet long, 11 feet high, and weighing over 71 tons to be shipped f.o.b. the plant.

The casting schedule called for one beam to be produced each day and four beams to be released and moved off the bed to storage the same day. Normally at this plant beams are moved by mobile crane. However, the 71 tons was beyond the capacity available, and to rent two heavy cranes for each moving operation would be a high cost burden.

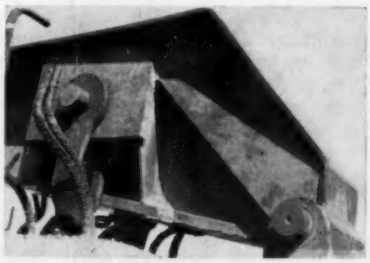
A unique solution was worked out by Mr. Roy N. Hill, consulting engineer with Lakeland Engineering Associates, Incorporated. He designed a hoist to utilize a small jack placed on top of the beam to be lifted, and under the end of the fulcrum of the lifting device. This fulcrum was pinned by threading clevises to lifting bolts cast vertically into each end of the beam. As the jack was elongated, it would lift the beam, even though the jack was bearing against the beam itself.

● Left: horizontal bolt above trucks takes the horizontal thrust of the beam.

● Below: a close-up of threaded clevis and hinge arrangement of the lifting device's lever.

A horizontal bolt on the lifting device takes the horizontal thrust from the beam. The whole frame rolls on rails so that after the beam is lifted it may be pulled sideways to the storage area.

During the actual lifting operation it was considered faster to employ an available truck mounted crane to activate the lifting device which required only 8 tons to lift the 35½-ton load at each end of the beam.



The beams are to be used on a large chemical storage building 40 feet high, 100 feet wide, and 960 feet long, under construction for The American Cyanamid Company. All structural designs were prepared by Lakeland Engineering Associates, Incorporated, Lakeland, Florida. No interior columns are used. The exterior columns, walls, beams, and roof deck are all precast. The roof deck uses double tee prestressed slabs supported by the 100-foot long prestressed beams, each of which receive a 20-ton composite pour making the individual beam weigh 91 tons! DeWitt, Furnell, and Spicer of St. Petersburg, are the general contractors.

Both Sides of Precast Concrete

By R. O. BEAUCHEMIN

Consulting Engineer, Montreal

Presented To The NCPA In Montreal

For some years now, the precast concrete industry has been enjoying a tremendous market, and the quantity of concrete manufactured—block, brick, pipe, slabs, etc.—increases each year.

This phenomenal growth shows that though there are problems to this type of construction, the advantages far outweigh the disadvantages.

Here, we shall attempt to review the problems attached to precast concrete construction and how they may be alleviated, wholly or in part: We also shall review the advantages of this mode of construction and shall look to other fields where it could be applied.

The principle difficulties are the following:

1. **Shrinkage**
2. **Weight**
3. **Assembly and continuity**

Drying shrinkage is an always-present factor in concrete work; often this shrinkage necessitates special precautions. It is a function of the quantity of water per cubic yard of concrete.

To completely hydrate, one bag of cement requires only one-and-three-quarters imperial gallons of water (approximately two U.S. gallons). Extra water, added to give plasticity to the mix, not only weakens the paste but also causes the concrete to shrink when portions of it dry out. Because of this, in some projects, such as long spans, a good percentage of the stresses are caused by drying shrinkage. The use of precast concrete may prove advantageous by allowing it to cure thoroughly before it dries. The pieces then may be assembled with this factor mostly eliminated. However, particular care must be paid to lightweight concretes, some of which, made from certain lightweight aggregates, dry out at a much lower rate and may thus cause stresses not allowed for. The lightweight concrete still may shrink after incorporation in the work.

As regards concrete block and brick construction, it is imperative that these be thoroughly cured and dried before they may be made part of a wall. Everyone is only too familiar with shrinkage cracks that run right through the brick, rather than the joints where they could be repointed. Or just as familiar are shrinkage cracks occurring about every eight feet or so in block walls. In our climate, a concrete block will eventually dry out to about 20 per cent moisture in the voids. Supposing a wall 100 feet long has to be built-up of concrete block of 40 per cent moisture content; eventually it will shrink $\frac{3}{8}$ of an inch, thus causing a series of vertical cracks. A.S.T.M. specifications allow a maximum of 40 per cent moisture, but this limit should be treated as a maximum—not the ideal. Moisture contents of 20 per cent will result in much tighter, more crack-free surfaces.

Because of temperature shrinkage, the use of dry block alone never would completely control cracking; Thus it becomes necessary to resort to control joints in the walls. These joints should never be more than thirty feet apart, and they can be made in a variety of ways—all very economically. The use of reinforcing also may be warranted in some cases.

In larger precast work, such as long slabs and beams, added steel reinforcement, as in conventional reinforced concrete, will neutralize stresses due to shrinkage. In precast, prestressed work, shrinkage cracks are simply nonexistent.

WEIGHT

The average concrete mix weighs around 140 pounds per cubic foot. This weight may be useful in a gravity retaining wall or dam, but most often it causes problems. In precast concrete, it means that the handling is more difficult and therefore more expensive; hauling and shipping are costlier, placing requires special equipment; and, worse still, the size of the unit is definitely limited. Also, structural costs are increased as the dead load increases.

The problem of handling does not exist in brick construction and is not so great in block construction, because of the use of pallets and mechanization. But it is a very serious consideration for other precast work.

This difficulty can be reduced by the use of hollow cores, high strength concrete, lightweight aggregate, and prestressing. All these methods of weight reduction are more or less difficult to achieve in the field of cast-in-place concrete, since they require excellent formwork, highly trained labor, or special techniques. However, used singly or jointly in precast work, these practices often provide the margin of economic feasibility.

ASSEMBLY

Practically every precast concrete product must eventually be assembled to another concrete product or to some other construction material.

In brick and block construction, this is relatively easy to achieve, requiring only a mason and masonry mortar. However, it must be said that the ideal mortar for con-

crete brick has yet to be found. It requires a mortar that will be weaker than the brick, so that any cracking (shrinkage, settlement, etc.) occurs in the mortar.

Concrete pipe is now joined easily by using elastic cements. This method is a great improvement over mortar joints that lacked flexibility.

Large pieces, such as slabs, wall panels, and beams, present the difficulties when it comes to joining and assembling them. Very often the pieces are keyed, and mortar is used, but the load transfer properties of these joints are nearly nil. In other cases, reinforcing bars or steel plates are made to protude and are welded or bolted together or to other structural members. Prestress is also used to join the several components into a single acting unit with extremely interesting possibilities. Whatever the methods used, all factors must be studied before a choice is made. The design must take into account the influence this assembly will have on the whole.

There are other minor problems associated with precast concrete construction, but they are not serious and are easily overcome.

The advantages of precast concrete are in the main:

1. **Economy**
2. **Quality**
3. **Speed of Construction**
4. **Flexibility**
5. **Availability**

The economy is self-evident, and without it the industry would not be what it is today. However, although this is well recognized in the block, brick, pipe and slab field, it has not yet been fully exploited in other fields. Use of precast concrete is much more advanced in European countries where the majority of postwar important construction projects incorporate it.

But there are signs that precast concrete is now being appreciated on this Continent; the recently completed causeway over Lake Pontchartain, near New Orleans, is proof enough. This structure, over 24 miles in length, consist of 2,235 precast prestressed deck spans.

The Florida Sunshine Skyway over Tampa Bay consisting of 2,178 post-tensioned precast girders, and the Dauphin Island Bridge across Mississippi Sound with a roadway of precast concrete slabs for a distance of over two miles are more examples of this.

Here in Montreal, the Jacques Cartier Bridge over the St. Lawrence River was widened last year by the addition of a lane made of precast prestressed concrete slabs.

QUALITY

Quality is another big advantage of precast concrete. It is the ideal way to make concrete, for it must be remembered that concrete making is a chemical process which takes place between the cement and water. This reaction will occur and continue only if the right temperatures and humidity are maintained. Like every chemical reaction, it will speed up, slow down or lie dormant as the temperature is increased, lowered, or lowered below a certain level. If the curing is not done under moist conditions the concrete will dry out and the reaction will stop. It is also very important that the mix proportions, which have been determined, be maintained consistently as the whole is no stronger than any of its portions. All these quality controls can best be achieved in the plant, rather than in the field, where climatic conditions make it sometimes difficult and expensive to achieve.

Placement of the concrete also is made easier, and clean surfaces free of honey combing and other defects result. Sub-standard pieces may be rejected, thus assuring that only first class components go into the construction.

Quality in a product is essential. It should never be sacrificed. Precast concrete enjoys this reputation, and you should strive to keep it.

SPEED OF CONSTRUCTION

Requiring no formwork, no curing period, the erection of precast concrete takes far less time than in-situ concrete. This can be very important—and at times imperative.

FLEXIBILITY

Concrete, when freshly mixed, is a plastic material which may be moulded into any shape or form desired. Color may be incorporated in the mix, or special aggregates used to get certain effects.

This great quality is peculiar to concrete, and it is one reason why this "liquid stone" has always interested designers. However, some shapes are difficult to achieve with in-situ concrete, if not impossoble.

But precast concrete can supply these shapes, easily and economically.

AVAILABILITY

It is interesting to the designer to know that wherever the construction may take place, except maybe in the far North, he is practically assured of a source of precast concrete products.

Availability of the product is important: blocks, bricks, and pipes of concrete may now be purchased locally on any construction. For example, I spend my summer weekends some one hundred and ten miles North of Montreal, in an area where wood-cutting is the prime industry. Yet most new houses are made of concrete block manufactured some ten miles away.

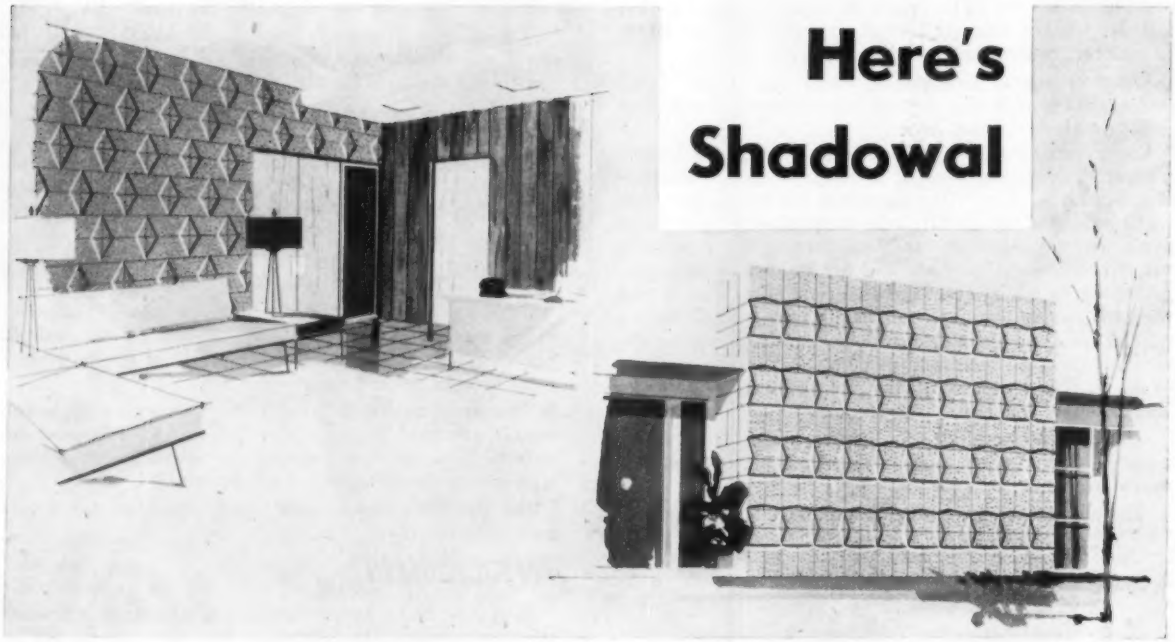
Up to now, the possibilities of precast concrete have only been surface-scratched, so to speak. A very extensive field is still open. This is especially true with lightweight precast concrete and prestressed precast concrete. Both have immense possibilities.

I do not think you need to be reminded that we live in a cold climate: therefore, anything that will cut down the conductivity of concrete, without too large an increase in cost, is assured of a wide market. There are of course a variety of lightweight aggregates available. They range from materials of very low strength to some that give strengths comparable to that of gravel concrete. In general, their insulating properties are in a nearly inverse ratio with their weights, and therefore with their strength.

All of these products have their advantages and their problems. They each have a specific domain to serve which will depend on their characteristics. Below the border, their use has increased more than 400 per cent from 1949 to 1954. In our climate the potential, per capita, should be even better. As stated previously, the reduction in dead weight is an important factor that should help this product.

Prestressing attains its highest potential when used jointly with precasting. It is doubtful if prestressing could be done economically on this continent without precasting. It can even be said that most of the economy of prestress resides in the precasting operation. However, prestress can enlarge the scope of precasting. Longer span slabs can now be considered; lighter units may be fabricated; units of various lengths become more easily fabricated. Completely new fields are opened, requiring pioneer work of course. But they eventually should prove very fruitful.

Here's Shadowal



Shadowal block, the unit with "one thousand" faces, was introduced to the public recently in a release of the National Concrete Masonry Association.

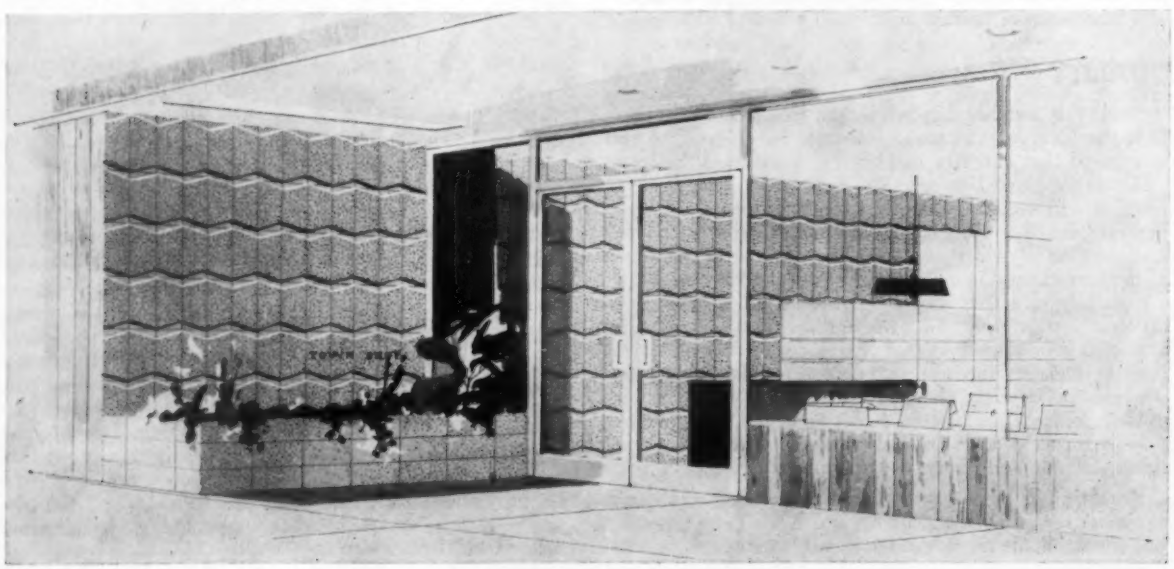
The unit, promoted under this registered trademark name, will be marketed by NCMA members across the nation.

Some of the possible arrangements using various styles of shadowal intermixed, or juxtaposed with standard units, are pictured in the illustrations. Beauty of the unit in the wall comes from the highlights, shadows, and textured surfaces developing from the recess formed in the block.

According to an NCMA spokesman, changeover attachments needed to produce shadowal—end plates, plunger, and stripper shoe—are now available from some block machine manufacturers. It is expected that other block machine manufacturers will carry the necessary attachments in the near future.

At present, shadowal block can be produced in four styles—double bevel, right or left bevel, and half unit. Recess on the block face is 3/8 inch deep, and the angle of the indentation is 60 degrees.

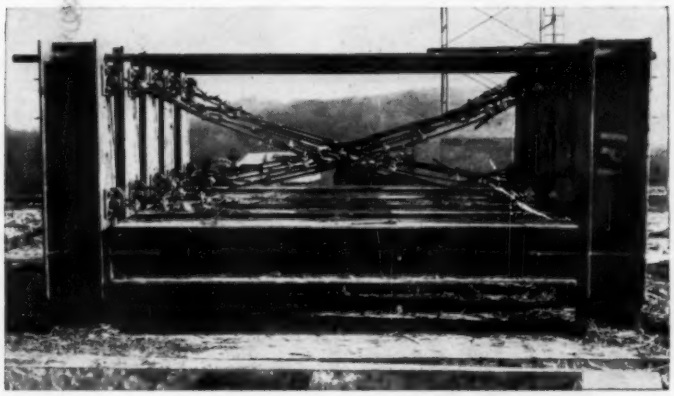
On the subject of rate of production, the NCMA spokesman said there should be no decrease in the number of units coming off a producer's present machine. There was mention, though, that a finer gradation of aggregate would be necessary in producing shadowal. Units can be made with either sand and gravel or lightweight aggregates.



600-Foot Prestressed Highway

● Pouring for prestressed highway

● Jacks inserted between slabs



● Steel frame holds slabs apart while concrete cures in gap

An experimental 600-foot stretch of prestressed-concrete highway that may have a revolutionary effect on present methods of highway construction has been built at Pittsburgh by Jones & Laughlin Steel Corporation. The prestressing operation was carried out in February. Extensive tests on the roadway will be carried out in the coming months.

Ready mix material supplier was the Marion Coal & Supply Company. The mix was trucked to the site in units from Allegheny Contracting Industries, Incorporated. Both are Pittsburgh firms.

Essentially, the J&L experiment consists of anchoring connecting wire strands at opposite ends of a 400-foot section of roadway to be formed. The strands pass through flexible steel conduits which are imbedded in the concrete.

When the concrete for the prestressed section was poured, a six-foot gap was left in the middle of the section. For the pre-stressing operation, huge hydraulic jacks were placed longitudinally in the gap. When the concrete set, the gap was jacked apart to a width of eight feet, far enough to produce the required tension in the wire strands, and consequent compression in the concrete.

When this was accomplished, the jacks were removed (a special device was developed to hold the sections apart while this was done) and concrete was poured into the gap.

Thus the entire 400-foot section of concrete was placed in compression as a result of the tension in the imbedded steel strands. The concrete slab is five inches thick whereas most present-day highway pavements are 10 inches thick.

The J&L pre-stressed section is 400 feet long. Thus seven joints are eliminated in every 400 feet—seven places where deterioration could take place.

The joint in the J&L experimental road will have to be wider than the conventional joint because it will have to compensate for the expansion and contraction of 400 feet of concrete, rather than the customary 60 feet.

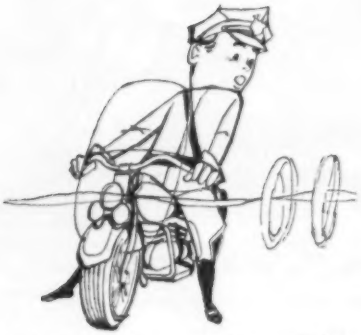
To find a suitable joint for such a width, the B. F. Goodrich Industrial Products Company has been conducting research, in collaboration with J&L. A prototype of a satisfactory joint has been made. A full-size joint soon will be installed and tested as part of the research on the experimental concrete section.

The joint, which is 12 inches wide and extends the full depth of the concrete slab, is designed to allow the top surface to remain level during maximum expansion and contraction of the concrete sections. According to C. O. DeLong, President of Goodrich Industrial Products, the joint is an entirely new concept. It includes a series of metal plates bonded to rubber to carry the vertical loads that traffic will impose on the joint.

In addition to the main 400-foot section, a 100-foot pre-stressed section has been placed at either end, bringing the total length of the experimental road to 600 feet. Thus two joints will be made available for testing.

● Uses good highway techniques

● Takes care of his truck



● Observes the posted speed laws

Developing Professional Drivers

by **RICHARD PARISIAN**

Standard Block and Supply Co.

● Is courteous to job personnel

1. Advise driver of the prime importance of good personal appearance. A daily shave, regular haircuts and clean clothing are a must.
2. A neat, clean, courteous driver driving a dirty bedraggled looking truck is like a square peg in a round hole. They just do not fit together. A good truck driver should be as careful of the appearance of his vehicle as he is of his own person.
3. It should be impressed upon the driver that, in the majority of cases, he and his truck contact the customer more frequently than anyone else in the company organization. The appearance of the driver and his truck are a direct reflection of the company and strongly influence the customer in his appraisal of the company and its products.
4. Each driver should be courteous with all customers and people on a job. By that we mean that he extend politeness and courtesy to the laborers as well as the bosses. Today's laborer is tomorrow's potential contractor, and his business could be worthwhile.
5. Instruct driver as to position or readings on all instruments un-

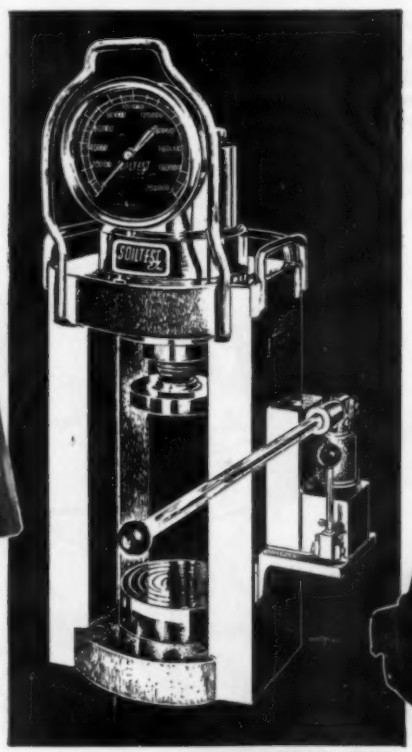
der normal conditions. Driver should check instruments each time he starts truck; any instrument reading other than normal should be reported to garage personnel at once.

6. Instruct driver in the use of the tachometer and check very closely to see that he drives and shifts to the proper gear ratio as indicated by the tachometer.
7. Observe the driver's attitude towards speed. In areas where speed laws governing trucks are not posted, they are normally five (5) miles per hour slower than the speed posted for passenger vehicles.
8. Caution driver to watch for pedestrians, especially small children. Warn driver to reduce speed and be prepared to stop when driving past a group of small children walking or playing along the shoulder of a highway or along the curb. They do not think and are apt to run into the street for no reason.
9. Watch to see if driver follows proper driving procedure on the highway, such as the distance he maintains between his truck and the one ahead of him. The legal requirement between trucks going down the highway is 500 feet. A good rule to follow in city driving is to keep a distance of three truck lengths behind the truck in front.
10. Impress upon the driver the importance of his actions on the highway and city streets. Remind him that the name of the company is painted all over his truck and any enmity or ill feelings of other drivers created by him due to cowboy driving tactics are directed squarely against the company.
11. Before backing or driving onto a delivery site the driver should get out of the truck and check ground conditions. If area is covered with high weeds or tall grass, he should take a walk over the course he will be required to drive to make certain there are no steel markers, stakes, bottles, nails, rubbish or other obstructions that he might run over and ruin a tire. In rural and suburban areas he should inquire as to the location of septic tanks or shallow tile lines so as to avoid driving the truck over them.
12. Instruct driver in placing a block or some object he can plainly see at the spot near a building or basement where he has decided it is safe to back to with his load. Customers do not realize the tremendous weight of loaded trucks and the driver will have to be diplomatic enough to spot his truck so as to maintain safety and customer satisfaction at the same time.
13. When driving through doorways or other areas with overhead obstruction he should get out of truck and make sure he has more than sufficient clearance.
14. When parking truck make sure driver shifts axle to low range position, shifts transmission to reverse position and sets the emergency brake.
15. Observe how driver handles his loaded truck in hilly country. Remind him that a loaded truck should be driven down a hill in the same gear ratio that it would be driven up the same hill. Putting the truck in a lower gear when going down hills will utilize the motor as the source of braking action, and a safe truck speed can be maintained without riding the brakes. Remind the driver that in proper driving the use of the brakes can be limited to emergencies and complete stops.
16. Older model trucks and many new models do not have synchro mesh transmissions, and double clutching is necessary for quiet smooth shifting of gears. Double clutching means just what the term implies. When shifting gears clutch is released twice. This allows the transmission gear train to slow down, allowing for smooth shifting. At the instant the clutch is released the second time, shift the transmission. Double clutching must be a fast operation. If it is done sluggishly engine speed will be lost during the shifting operation, and the driver will have to shift again to a still lower gear ratio.

Prestressed Conveyor Structure

● Structure supporting batching plant conveyor system at Duracrete, Incorported, Leesburg, Florida, is believed to be the first such prestressed structure in the nation. It consists of three "A" frames of prestressed concrete, which were tilted up, and pairs of 14-inch channels, varying in length from 36 feet 5 inches to 58 feet 6 inches. These were anchored into place by composite pouring of beams atop the "A" frames. Durastress, Incorporated, an affiliate of Duracrete, designed and fabricated the prestressed sections.

WRITE TODAY FOR OUR NEW CATALOG



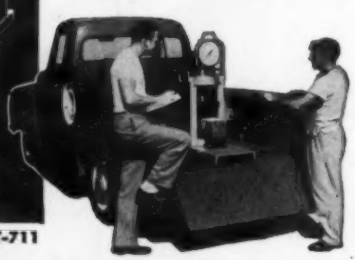
MODEL CT-711

Accurate Testing to insure COMPLETE QUALITY CONTROL of your concrete products is quick, easy and economical with the NEW

CT-711 CONCRETE TESTER

This flexible, self-contained unit is ideal for PLANT or JOB-SITE use. Easily installed attachments provide for rapid conversion from CYLINDER to BLOCK, BEAM or CUBE TESTING. An electrical pump attachment is available for power operation. The CT-711 is calibrated for accuracy to within 1% of the indicated load.

Gauges available in Metric System. Capacities to 200,000 pounds.



SOILTEST Incorporated 4711 WEST NORTH AVENUE • CHICAGO 39, ILLINOIS

PLANT NOTES

A new corporation, the Merle Hay Block Company, has purchased the Merle Hay Concrete Products Company in Des Moines, Iowa.

Gerhold Concrete Products Company of Norfolk, Nebraska, has been recently incorporated.

Midwest Concrete Industries is constructing a $150,000 expansion to its Des Moines, Iowa, plant.

The new Cen-Vi-Ro pipe plant of Mobile, Alabama, made its first barge shipment of concrete pipe last month to New Iberia, Louisiana.

Great Western Concrete Company recently opened for business in Grants, New Mexico.

Officers of the recently incorporated Billings Pre-Stressed Concrete Products, Incorporated, have announced plans for a pre-stressed concrete plant to be located at Billings, Montana.

Myles Knechtges, owner of the Grafton Lumber Company in Elyria, Ohio, is constructing a $50,000 ready-mix plant expected to produce 500 cubic yards of concrete per day.

Consumers Ready-Mix Incorporated, a newly organized corporation, has purchased Massaro Company, Incorporated, of Syracuse, New York.

Modernization plans of Smith Concrete Products, Incorporated, of Kinston, North Carolina, include the installation of two autoclaves. Each is designed to be 108 feet long with a 10-foot inside diameter, making possible a combined capacity of 7,000 concrete block and a total daily output of 14,000 units.

Newly-incorporated Universal Ready Mix Company is building a $175,000 plant at Reynoldsburg, Ohio.

The new ready-mix plant of W & W Concrete, Incorporated, began operations at Roanoke, Indiana, in May.

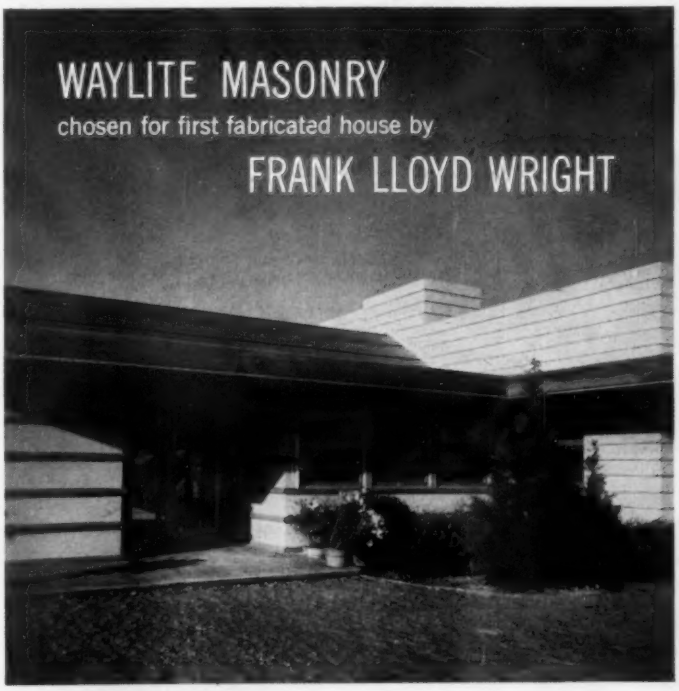
CEMENT BRIEFS

The Arkansas-Louisiana Gas Company is building a $15 million cement plant in Little River County near Foreman, Arkansas.

General Portland Cement Company is constructing a 15-million-dollar plant at Miami, Florida. Upon completion early in 1958, it is expected that it will turn out 2,500,000 barrels of cement a year.

The South Dakota State Cement Plant at Rapid City is installing a new kiln. This addition, expected to be in operation by summer, 1958, will boost total production to 2,500,000 barrels annually.

Canada Cement Limited has put into operation the second kiln at its Woodstock, Ontario, plant, bringing total capacity of that plant to three million barrels of cement a year.



Erdman Homes, Madison, Wisconsin, builder. Top view shows main entrance. Lower shows use of Concrete masonry units.

Frank Lloyd Wright's design of a residence for fabrication is now a reality. The first has been built at Madison, Wisconsin, and Waylite Masonry units were used for the massive utility core . . . the enormous fireplace . . . and the wall and flowerbox surrounding the terrace.

Waylite Masonry Units are always of high quality. They offer many unusual advantages. See 16 pages in Sweets, or write for catalog of engineering data and construction details. The Waylite Co., 20 North Wacker Drive, Chicago 6, or P.O. Box 30, Bethlehem, Pa.

WAYLITE
MASONRY UNITS

The lightweight unit for modern construction

(ABOVE) Typical of full-page Waylite advertisements that have appeared monthly in major architectural journals during the past 8 years in addition to Waylite's 24-page catalog in Sweets giving test data and construction details. . . . Waylite is made in the most modern type of aggregate plant where all processing factors are under rigid quality control. The aggregate is made into lightweight units by leading products manufacturers. . . . The exceptionally high merits of Waylite masonry units are widely recognized. . . . The Waylite Co., 20 North Wacker Drive, Chicago; or P. O. Box 30, Bethlehem, Pa.

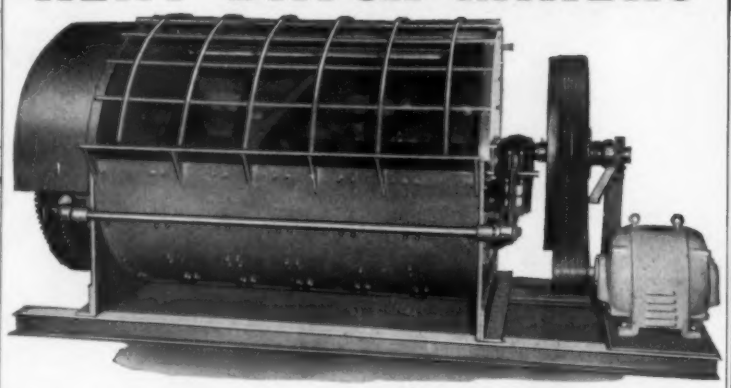
NEW LITERATURE

MASONRY SAWS—A new 1957 four color price folder is now available from the *Eveready BrikSaw Company* for their line of masonry saws and blades. Included is a blade recommendation chart for cutting all types of building and refractory materials. Copies can be obtained from dealers or by writing the company at 1509 South Michigan Boulevard, Dept. 533, Chicago 5, Illinois.

ROOF TILE—A folder presenting the features of the roof tiles developed by *Anza Industries of America, Incorporated,* has been put out by the company recently. Besides considering the safety factors, ventilation possibilities, and savings value of the tile, the folder includes a diagram of installation details. Write to Anza at 12900 Newburgh Road, Livonia, Michigan.

12 Cubic Foot to 75 Cubic Foot

KENT BATCH MIXERS



This large capacity mixer combines features that assure safe, convenient operation and large output of thoroughly mixed concrete *economically.*

Gearing is precision cut. Motor, positive action clutch, belts and bearings are specially designed for heavy duty. Motor and bearings are sealed to exclude dust and grit.

Mixing blades are a superior quality of cast steel. Liners are of sectional type cast from NI-HARD metal, in the larger size mixers. They will render exceptionally long service and may then be replaced easily.

Write for information regarding the complete Kent line of Batch Mixers or Kent Continuous Mixers if interested in this type.

See

KENT MACHINERY IN OPERATION
Right In Your Own Office

Just Ask Our Representative to Bring His Movie Projector

The KENT MACHINE CO.

DIVISION OF THE LAMSON & SESSIONS CO.

CUYAHOGA FALLS, OHIO

CONCRETE PRODUCTS MACHINERY SINCE 1925

Canadian Distributor: Wettlaufer Equipment, Ltd., 49 Merton St., Toronto 12, Ontario

TRUCK MIXER—*Construction Machinery Company* of Waterloo, Iowa, has put out a folder concerned with the advantages of the TED Transcrete truck mixer. The folder illustrates and explains new features of the front-engine-powered, drum-drive unit.

MOISTURE TESTING OF CONCRETE BLOCK—A circular prepared by *Central Scientific Company* describes the Cenco 25531, an instrument for determining the moisture condition of hardened concrete block. The apparatus uses the relative humidity method developed by Carl A. Menzel, concrete consultant with the Portland Cement Association (See CONCRETE, October 1956). The circular is available from the company at 1700 Irving Park Road, Chicago 13, Illinois.

TWO-WAY RADIO — Bulletin ECR-458, of *General Electric,* explains how components of two-way radio may be interchanged between station and mobile combinations to assure flexibility. Also covered in the eight pages is the addition of such optional equipment as selective-signaling, selective-calling, and simultaneous monitoring. The bulletin is available from G-E Communication Products Department, Syracuse, New York.

COLORING CONCRETE—An eight-page booklet devoted to concrete colors has just been published by *C. K. Williams and Company,* 640 North 13th Street, Easton, Pennsylvania. The central four-page section features 46 colors chips which show available shades and ranges of color. These are obtained by proper mixing of iron and chromium oxide pigment with both gray and white cements. Included is a summary of specific pigment recommendations and instructions as to the advance determination of final color.

GASKETS — A 20-page booklet describes the Tylox rubber gaskets manufactured by *Hamilton Kent Manufacturing Company,* 427 West Grant Street, Kent, Ohio. The booklet gives the history of the development of rubber joints, and complete engineering and application data. Over 25 photographs show on-the-job installation of the gasket and coupling of concrete and vitrified clay sewer pipe.

BOOK REVIEWS

ELEMENTARY THEORY OF STRUCTURES by Chu-Kia Wang and Clarence Lewis Eckel. *McGraw-Hill Book Company, Incorporated, 330 West 42nd Street, New York 36, New York.* 387 *pages.* $7.50.

The text covers algebraic and graphic methods of solving problems in equilibrium of coplanar force systems, shear and bending moment in beams, and stresses in trusses. Further problems include analysis of roof trusses and building bents, influence diagrams, analysis of highway and railway bridges, and deflection of beams, rigid frames, and trusses. Although the text provides an elementary review of statics, it also covers influence diagrams and moving loads, and progresses to common methods of analyzing statically indeterminate structures, usually fairly advanced topics. Special emphasis is placed on illustrative examples.

CRSI DESIGN HANDBOOK. *Concrete Reinforcing Steel Institute,* 38 *South Dearborn Street, Chicago* 3, *Illinois,* 400 *pages,* $6.00.

The new edition of this book streamlines the process of designing reinforced concrete structures by eliminating most of the computation. Answers to complex stress and load problems are all worked out in the manual, and are read directly by simple reference to tables. The handbook was prepared under the direction of the committee on engineering practices of the Concrete Reinforcing Steel Institute.

CONCRETE MANUAL *Superintendent of Documents, Government Printing Office, Washington* 25, *D. C. Catalogue No. I* 27.19: *C74/956.* 491 *pages.* $2.50.

A manual for the control of concrete construction, it includes information relating to concrete and concrete materials and covers in the investigation and selection of materials to be used in concrete mixes. Further subjects include inspection and laboratory facilities; concrete manufacturing; handling, placing, and curing; repair and maintenance of concrete; and special types of concrete and mortar.

PCI SPECIFICATION FOR PRESTRESSED CONCRETE. *PCI Publication Office, 3132 North East 9th Street, Fort Lauderdale, Florida. $1.00 per single copy.*

A tentative, revised specification has been prepared by the Prestressed Concrete Institute to further standardization of design and product. The specification is marked "tentative" because developments in 1957 may warrant further revision. The price listed above is for non-members of PCI; members may receive individual copies for 50 cents.

DRIVER MANUAL. *Sales Promotion Department, The White Motor Company, Cleveland* 1, *Ohio.* $1.25.

This is a revised and re-issued version of the manual adopted by many fleet training courses. It is a compilation of data based on the experiences of successful drivers and features the teachings of authorities in the motor transport industry.

The book discusses proper starting of the truck and take-off. It includes directions for parking the truck, taking good care of it, and the correct road practices.

Remember way back when?

WHY DELIVER CONCRETE WITH COSTLY, OUT-OF-DATE METHODS?

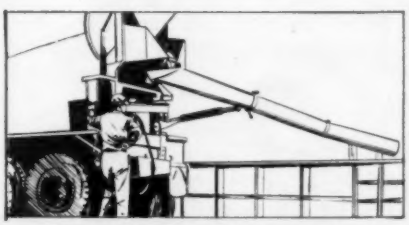
NOW...

MONARCH DYNA-CHUTE

SAVES TIME, COSTS— INCREASES PROFITS

THE MODERN WAY

Monarch DYNA-CHUTE Hydraulic Controls position the discharge chute on Ready Mix trucks in 8 seconds . . . automatically! Just a flick of the control handle — the chute is lifted, held, or lowered instantly without effort. Saves time, reduces injury, pays for itself, load after load. Send for free folder and name of nearest dealer.



SEND FOR FREE FOLDER

MONARCH ROAD MACHINERY CO 1856 100 1956

1331 D MICHIGAN ST., N.E. — GRAND RAPIDS 3, MICHIGAN

$ales CLINIC

The Blackboard

Somewhat allied to the brainstorming technique going the rounds of industry and advertising today is the use of the blackboard. A problem—such as a competitor moving in and selling one of the company's old accounts—is set up for sales personnel. They, in turn, project themselves into the problem and suggest various methods of reselling the customer—personal calls, services, handling of complaints—so as to gain back the lost business. These are outlined on the blackboard and then discussed.

He's Everywhere

The following appeared as the description of a safety engineer, but it also seems to apply to progressive business personnel in general. "The restless man is everywhere—and wherever he is, he is busy taking ideas apart, pushing them, pulling them, and putting them together again. Like most men, he is proud of his accomplishments. Unlike many, he worries over what remains undone. His mind constantly 'itches' and the only scratching that brings relief is the direction of his energies toward doing what remains undone.

"Fortunately, the 'scratching' of the man on the job results in ideas that do a given job better, faster, safer, and cheaper. Off the job, it helps to create a demand for new and better products, and thus the cycle is completed."

Spread It Out

If it's compact and neat—if all the questions are answered in one telling or one reading—the answers (the message) may just as easily be forgotten, laid aside, or tossed in the wastebasket.

Sometimes, spreading the message out so as to create a continuing impression, will bring home the bacon—will attract the sought-after business.

For instance, take the fellow who was applying for a job which listed 10 requirements of the applicant. Instead of writing one letter covering all 10 points, his first letter covered only one of them. It also stated that the others would be considered in succeeding letters. Somewhere near the middle of the series, the applicant was invited in for an interview—and, of course, he got the job.

Quite often, a thoughtful explanation of just one or two features of a company's product—such as your ready-mix or block—will more than fill either the allotted space of an ad, or the time a purchasing agent can devote to a salesman. So cover just this bit in the time and space allowed. Then suggest, in closing, that there is still a great deal more that can be said—more that will be taken up in the next ad or talk.

Public Identity

Businesses are realizing that an integrated whole presents a more memorable public appearance than one which has many, seemingly uncorrelated parts.

A part of this unified public identity is the successive and continued use of one color scheme, one distinguishing and easily remembered way of printing the company name, or a symbol representing the organization and its products.

In the Chicago area, a number of these idea-conveying symbols and color schemes stand out—the red kiss imprint of Magikist Rug Cleaners, the red and yellow colors on every Material Service Company truck and building, the large 1st. standing for the First National Bank. On the national level, a number of these symbols and color-identification uses come to mind.

Creating such a public identity—one that's unified and integrated—gives the organization a rock-like foundation, upon which to build its advertising, sales, and company good will.

Something More

An advertising campaign, to do its job, must stand out. To be raised out of the "just good" category, an ad must have that little (or big) something extra—sparkle, zing, or as an article in *Printer's Ink* called it, "bloom . . . if an ad has it, it doesn't need to have anything else; if an ad doesn't have it, it doesn't much matter what else it has."

More Games

Two new executive-development games—both akin to brainstorming—have been announced recently. One of them was developed by the American Management Association for use in its courses, and the second by Southern Institute of Management and American Institute of Management.

In the American Management Association version, teams of executives are pitted, one against the others. Each team makes up the management of a company that produces "widgets." In the beginning, each team (company) has an equal share of the market, and each has the same capital, assets, and production capacity. Then, depending upon management decisions as to price of the widget, buying and selling plant capacity, investing in market research, promotion, and increasing or decreasing production, a team either gains or loses a part of its position in the market. At the end of each 20-minute period (representing a fiscal quarter), the decisions are fed into a computor, which judges each team's decision against the competition. Of course, control of the widget market is the objective.

The Southern Institute of Management and American Institute of Management course is slightly different. Under this program, the executives, all from the same company, go at the same problems that would face their chief officer. The participants are taught to think in terms of the whole company operation—the internal and external events that would affect the company. They are taught to make decisions as if they were in the president's chair. Ability to compare and evaluate decisions is also strengthened during the course.

IT'S Lightweight AS WELL AS...

★ Firesafe
★ Durable
★ Sound-Absorbing
★ Attractive
★ Strong
★ Nailable
★ Of High Thermal Insulation Value
★ An Excellent Plaster Bond

CELOCRETE
LIGHTWEIGHT AGGREGATE

No wonder Celocrete Lightweight Aggregate is being used by more and more leading builders and manufacturers of concrete products. Its big construction advantages and economies make Celocrete the preferred aggregate for masonry units, pre-cast building panels, soffit tile, monolithic floors and roof fill, and many other uses.

Celocrete Lightweight Aggregate is made from expanded slag by a process licensed *only* by the Celotex Corporation. This exclusive method honeycombs every particle of Celocrete aggregate with tiny air cells—resulting in lightweight plus *built-in* insulation and sound-absorption value. For complete information write The Celotex Corporation, 120 S. LaSalle Street, Chicago 3, Illinois.

Another Famous CELOTEX *Product*

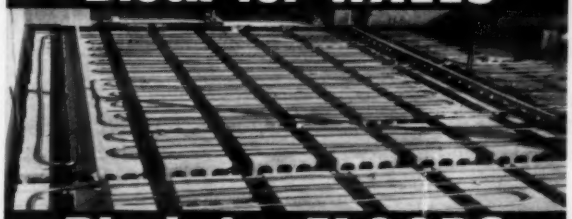
CELOCRETE
REG. U. S. PAT. OFF.

LIGHTWEIGHT AGGREGATE

The Celotex Corporation, 120 S. LaSalle Street, Chicago 3, Illinois

Go After the Entire Market!

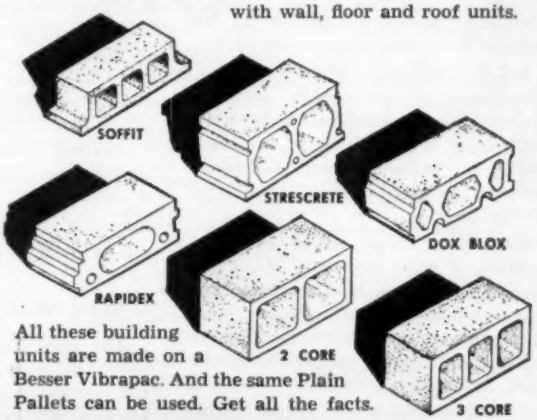
Block for WALLS



Block for FLOORS

Block for ROOFS

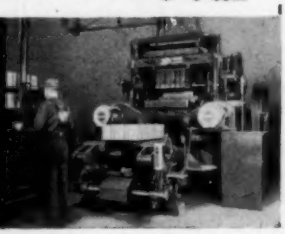
Fire-safe walls? Of course! But floors and roofs should be fire-safe, too. Walls are full of openings (windows, doors, etc.), while floors and roofs are relatively solid. Actually, TWICE the volume of block is required for floors and roofs than is required for walls. So why not go after this profitable market? Supply customers with wall, floor and roof units.



All these building units are made on a Besser Vibrapac. And the same Plain Pallets can be used. Get all the facts.

Write for Bulletin

BESSER COMPANY
ALPENA, MICHIGAN, U. S. A.
Complete Equipment for Concrete Block Plants



MANUFACTURERS' NOTES

Bucyrus-Erie Company

W. L. Litle

William L. Litle was recently elected chairman of the board and president of Bucyrus-Erie Company, South Milwaukee, Wisconsin, by the board of directors. Mr. Litle, who has been president of Bucyrus-Erie since 1952, has been associated with the company for 31 years.

Clark Equipment Company

Two executive promotions in the industrial truck division of Clark Equipment Company, Battle Creek, Michigan, have been announced by Robert H. Davies, vice-president.

L. A. DePolis

B. E. Phillips

L. A. DePolis, formerly general sales manager, assumes the position of director of sales. He will have responsibility for all phases of the marketing of fork-lift trucks, straddle carriers, powered hand trucks and towing tractors.

Bert E. Phillips moves into the position of sales manager. Mr. Phillips has been with Clark for ten years as a distributor salesman, staff salesman and northeastern district manager. He was named assistant sales manager in 1955.

Crane Carrier Corporation

The facilities of Available Truck Company, Chicago, have been purchased by Crane Carrier Corporation, a subsidiary of Standard Industries, Incorporated.

Blaw-Knox Company

The Chicago sales office of Blaw-Knox Company, Pittsburgh, is now re-located at 36 South Wabash Avenue, according to an announcement by J. C. McQuide, vice-president and district manager. Four divisions of the parent Pittsburgh company selling to the process, utility, metalworking and construction industries are represented in this sales office.

Wyandotte Chemicals Corp.

James E. Domke has been appointed sales representative for the Michigan Alkali Division of Wyandotte Chemicals Corporation.

Assigned to the central district office operating out of Wyandotte, Michigan, Mr. Domke's territory includes the eastern half of the lower peninsula of Michigan and the entire upper peninsula. Mr. Domke replaces David B. Bolander, recently transferred to Wyandotte's new Southwestern District Office.

Koehring Company

Three new distributors, named by Koehring Company, Milwaukee, Wisconsin, will handle sale and service of Koehring products in Arkansas and Ohio. They are McDonald Equipment Company of Little Rock, Arkansas; Central Ohio Tractor Company, Columbus, Ohio; and Minneapolis-Moline Company of Cleveland, Ohio.

Ottawa Steel Division

The appointment of Frank A. Jellesma as regional sales manager of the northwest territory has been announced by Edwin L. Johnson, general manager of Ottawa (Kansas) Steel Division of L. A. Young Spring & Wire Corporation.

Mr. Jellesma will have headquarters in Spokane, from which he will serve Washington, Oregon, Idaho, Montana, Wyoming, northern Utah, British Columbia, Alberta and Saskatchewan.

Four Wheel Drive

Stell Automotive Clinic of Fort Worth has been named by the Four Wheel Drive Auto Company, Clintonville, Wisconsin, as their Tarrant County, Texas, representative for the sale and servicing of highway maintenance, ready-mix, construction, and other industrial trucks.

Chain Belt Company

J. B. Roberts

Chain Belt Company recently announced the appointment of three new regional managers for its eastern, midwest - southern and north-western territories. It also announced the assignment of six new district sales managers and the establishment of a district sales office at East Orange, New Jersey.

Working out of the East Orange office will be eastern regional manager J. B. Roberts. His territory includes the Baltimore, New York, Philadelphia, Springfield and Boston district offices.

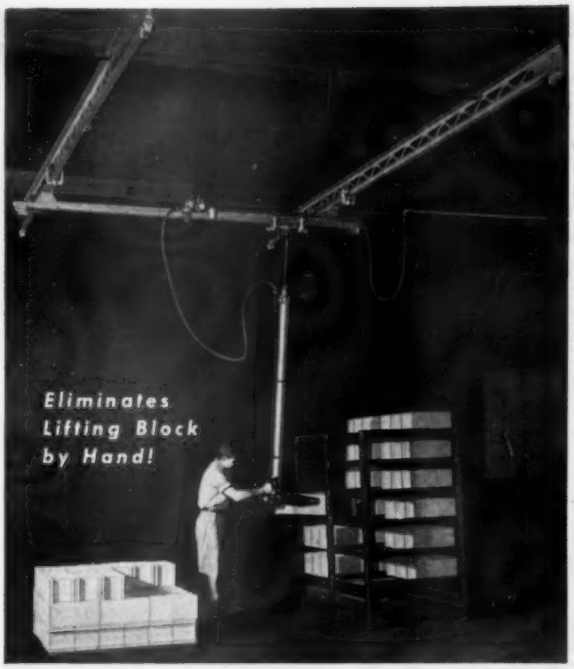
William Sivyer has been appointed midwest and southern regional manager with headquarters in Milwaukee. He will be responsible for Atlanta, Birmingham, Buffalo, Charlotte, Cincinnati, Denver, Jacksonville, Kansas City, Minneapolis, St. Louis and the Toronto, Canada, district offices.

From headquarters in Portland, Oregon, H. F. Bergis will cover the Northwest, including the San Francisco and Seattle district offices.

W. Sivyer

H. F. Bergis

The newly-appointed district sales managers and their offices are: J. S. Moore, New York; Harold M. Weil, Philadelphia; D. P. Murrill, Altanta; W. E. Church, Portand, Oregon; F. R. Traylor, Charlotte, North Carolina; and C. D. Bergen, East Orange, New Jersey.



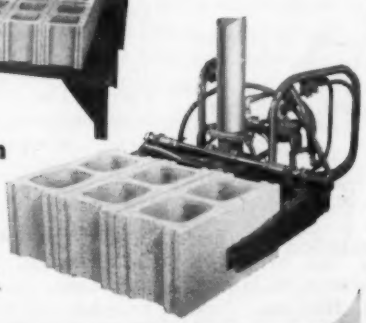
BESSER Bridge Crane
BLOCK CUBER

Now — you can eliminate the old-fashioned method of lifting block . . . one at a time . . . by hand. The Besser Bridge Crane Block Cuber builds a cube for convenient fork lift truck transportation to storage yard. Operator merely guides the easy, rolling crane which carries the block to the correct position for making a neat, square cube. Pays for itself through labor savings in a short time. Simplifies inventory count. Permits neat stockpiling. Saves yard space.

Write for Bulletin No. 103.

Cubing platform

Open grating of welded all-steel construction. Self-cleaning, with guide for perfect alignment of block. Note how easily 3 blocks are tipped over, in a single motion for first course.



Combination clamp

Simplifies handling of block or brick from rack to cube. Convenient control levers eliminate finger fatigue . . . make it easy to remove block from highest and lowest deck.

BESSER COMPANY

Complete Equipment for Concrete Block Plants

ALPENA, MICHIGAN, U.S.A.

better concrete at lower cost with MARACON

a new name in the concrete industry

MARACONS are admixtures for concrete that provide new and exceptional benefits so keenly desired . . . so urgently required . . . to meet existing needs of the concrete industry. MARACONS promote more complete hydration of cement particles . . . permit a substantial reduction in the unit water content without loss of plasticity or consistency of the mix. This means —

A. Lower Concrete Costs: —

1. Reduce cement required in a standard mix to give specified strengths.
2. Attain higher strengths without increasing cement content of a mix.
3. Maintain slump and workability at low W/C ratios.

B. More Durable Concrete: —

1. Minimize volume change in concrete before hardening, due to lower water content and more complete hydration of cement.
2. Achieve greater water-tightness and increased durability with respect to freezing and thawing.

The MARACONS also reduce water requirements in concrete mixes containing pozzolanic materials.

Write for File No. CO-67. You'll receive additional information including results of exhaustive independent laboratory tests and actual field experience.

MARATHON *Corporation*

CHEMICAL SALES DEPARTMENT

ROTHSCHILD • WISCONSIN

MANUFACTURERS' NOTES

Marquette Cement Mfg. Co.

E. Hognestad

Dr. E. Hognestad has been appointed technical director of Marquette Cement Manufacturing Company, Chicago, Illinois. He was formerly manager of the structural development section of the Portland Cement Association and is an internationally recognized authority on structural uses of concrete. In his new position, Dr. Hognestad succeeds Marquette Cement vice-president, C. E. Wuerpel, who now assumes general administrative duties with the company, which include supervision of technical operations.

Universal Atlas Cement Co.

The appointment of Wilbur M. Tomlinson as sales manager of the Kansas City, Missouri, territory of Universal Atlas Cement Company, a subsidiary of United States Steel Corporation, was announced by George S. Neel, vice president of the western sales region.

Mr. Tomlinson joined Universal Atlas in 1928 at Kansas City as sales representative covering the eastern Oklahoma territory. He has served as assistant sales manager at Kansas City since 1953.

Pittsburgh Coke & Chemical Co.

L. R. Forbrich

Louis R. Forbrich has been appointed general manager of the cement division of Pittsburgh Coke & Chemical Company. Mr. Forbrich joined the staff in 1946 as chief chemist and assistant superintendent of the Green Bag Cement Division. In 1950 he became superintendent of that division, the position he was holding at the time of his most recent appointment.

Galite Aggregate

Georgia Lightweight Aggregate Company of Atlanta, Georgia, producer of Galite expanded shale aggregate, has recently completed installations to increase by 60 per cent the productive capacity of its Rockmart, Georgia, plant.

The expansion program was comprised of the installation of additional conveying systems, raw storage silo facilities, and an additional 8 x 125-foot rotary kiln and 6 x 70-foot rotary cooler.

Joseph T. Ryerson & Son

Two appointments at the Wallingford, Connecticut, steel service plant have been announced by Joseph T. Ryerson & Son, Incorporated.

Former New York sales representative, William J. Waller, is now the manager of the work order department. Richard T. Rollinson, who served as a draftsman and estimator at the plants in Chicago and New York, takes over the post of manager of the reinforcing steel products department.

Fruehauf Trailer Company

The appointment of Franklin S. Sullivan as director, materials handling division, Fruehauf Trailer Company, has been announced by A. L. Rich, vice president-traffic. He succeeds Edwin Avery who has resigned to accept the position of traffic manager for the Detroit Port Commission.

Mr. Sullivan, who has been associated with Fruehauf for the last year, has been in the materials handling field for 21 years.

Worthington Corporation

The board of directors of Worthington Corporation, Harrison, New Jersey, announces the election of Walther H. Feldmann as president. He succeeds Edwin J. Schwanhausser, who becomes vice-chairman of the board of directors.

Monarch Cement Company

Everett S. Stephenson Jr. has been named the new sales representative in the Wichita area for Monarch Cement Company, Humboldt, Kansas. He replaces John M. Cook Jr.

Prescon Corporation

Loris L. Gerber, vice-president of Prescon Corporation, has recently been transferred to Denver, Colorado, as manager of Prescon's Rocky Mountain division. He replaces Mr. Lultcho Boduroff who is now practicing as a consulting engineer in Denver. Mr. Ben W. Young has assumed Mr. Gerber's former duties as chief engineer at the company's main office in Corpus Christi, Texas.

Lith-I-Bar Company

E. Vandervate

Emil Vandervate has been appointed sales manager of the Lith-I-Bar Company of Holland, Michigan. Mr. Vandervate will be responsible for all sales and service. Prior to this appointment he served as a representative for the company in the field for nearly three years.

Celotex Corporation

Appointment of Arthur L. Dent, Jr., as assistant general sales manager of The Celotex Corporation has been announced by Marvin Greenwood, vice-president, director of merchandising.

Mr. Dent, formerly manager of the company's branch in Atlanta, will be directly responsible for operations of the Cincinnati, Atlanta, New Orleans, and Texas sales branches. He will have his new office in the company's Chicago headquarters.

Succeeding Mr. Dent as manager in Atlanta is R. C. Moore, formerly manager of the Pittsburgh sales branch.

Is your window display selling CONCRETE MASONRY?

Retail merchants know from experience that attractive window displays really sell goods.

Most concrete products manufacturers have no windows in which to display the long-lasting and economical buildings made from their products. Yet, each community has many examples of quality concrete masonry structures. These buildings are, in effect, the real window displays of the concrete products manufacturers.

Promotion-minded concrete products manufacturers, being aware of this, keep a list of the best homes, stores, garages, factories and farm buildings at their fingertips. Such a list enables them instantly to select good examples to show to a prospective owner or his builder or architect when he inquires about concrete masonry construction. Every good job so promoted helps sell others and, like the retail window display, builds business.

Such effective promotion is one of three essential ways to build business. The others are: (2) making quality block that complies with ASTM and Federal specifications for moisture content, strength and water absorption and (3) recommending only contractors and builders who can be depended on to deliver quality concrete masonry construction.

PORTLAND CEMENT ASSOCIATION
33 W. Grand Avenue, Chicago, 10, Illinois
A national organization to improve and extend the uses of portland cement and concrete...through scientific research and engineering field work

YOU LIKED THE truck-man 40

BUT THE Y-40 IS EVEN BETTER!

We took your suggestions and reworked the Model 40 into a vastly improved truck, the Y-40. The 40 was designed for block handling. The Y-40 is your improvement.

- ***NEW***—Rigid mast fabricated of channels rolled especially for lift trucks—built to last indefinitely.
- ***NEW***—Transmission has four speeds, forward or reverse. Speeds to 20 mph, in either direction • Saves time and turnarounds on long or short hauls.
- ***NEW***—Narrow or wide drive axles with single or dual wheels • A combination to fit any conditions.
- ***NEW***—7.50 x 15, 10 ply Road Lug pneumatics on the drive and 6.00 x 9, 10 ply pneumatics on the rear assure maximum traction and footing.
- ***NEW***—Power steering at small extra cost.

PLENTY OF OTHER IMPROVEMENTS TOO

But we kept the features that made the 40 outstanding • Powerful 4 cylinder engine • Oversized clutch • Timken-Detroit drive axle • Honed hydraulic cylinders • Welded frame • Forks in many sizes and styles and special attachments for bulk materials and awkward pieces • Plenty of free lift for working in kilns • Tilting mast and optional side shifter for effortless cubing • Ample underclearance for humps and bumps • Ready accessibility to all wear parts.

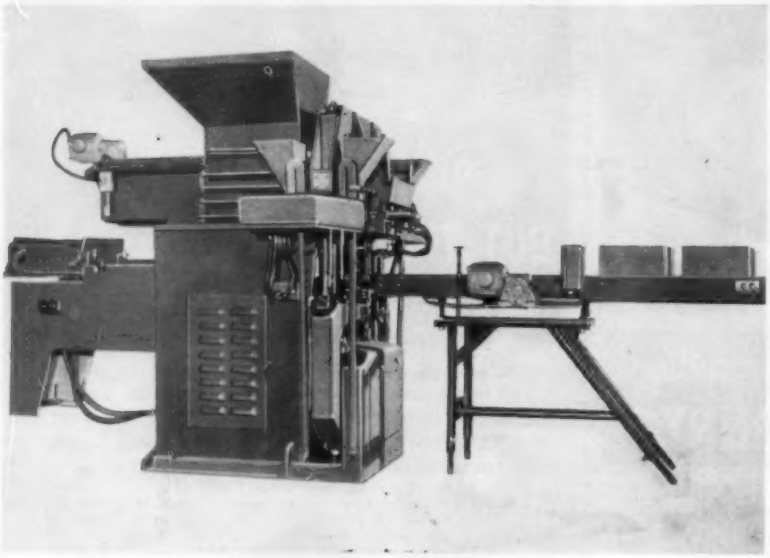
For paved yards or indoor work, ask about the new two ton Model W-40.

WRITE TODAY FOR FURTHER INFORMATION ON EITHER OR BOTH OF THESE NEW TRUCKS. EVEN WITH THESE EXTRA FEATURES TRUCK-MAN COSTS LESS.

truck-man
DIV. OF THE KNICKERBOCKER CO.
570 LIBERTY ST., JACKSON, MICHIGAN

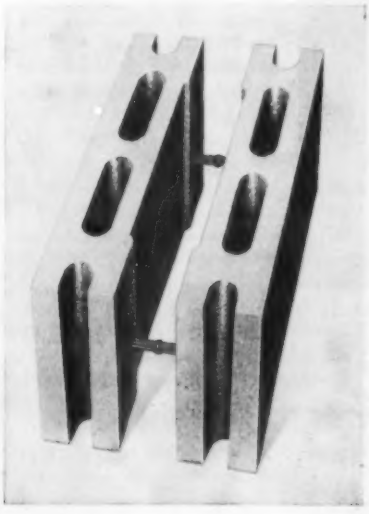
NEWS *from the Manufacturer*

METHODS
MATERIALS
EQUIPMENT
TOOLS



Cored, Twin-Wall Concrete Masonry Unit Produced on Plain Pallets by New Presto Block Machine

A new concrete masonry unit, the Presto plain pallet Pacer block, is now being introduced by the Presto Brick Machine Corporation, developers of the inter-locking, twin wall Presto block.



The Pacer block is comprised of two separate, cored blocks, joined by corrosion resistant, malleable iron ties. The block offers users twin wall insulation.

Since Pacers are produced on plain pallets, they are laid in the conventional manner and provide block manufacturers the opportunity of using their existing pallets.

As each separate wall of the Pacer Block is cored, thereby reducing the amount of concrete needed in production, a corresponding reduction in weight is achieved as well as a lower manufacturing cost. In spite of the reduction in weight, the manufacturer says compressive strength is not sacrificed due to the block design and tie bar construction.

Tests by an independent laboratory show that a sack of cement with a sand and gravel mix yields more than 35, 8 x 8 x 16-inch Pacer units, each one weighing approximately 37 pounds at 1,200 pounds per square inch, compressive strength.

New model of the Presto Block machine features automatic, synchronized pin injection for the production of the twin-wall concrete masonry unit and produces the block in cycles of four to six per minute.

Further information can be obtained from the Presto Brick Machine Corporation, Empire State Building, New York.

General Electric Device Squelches Interference

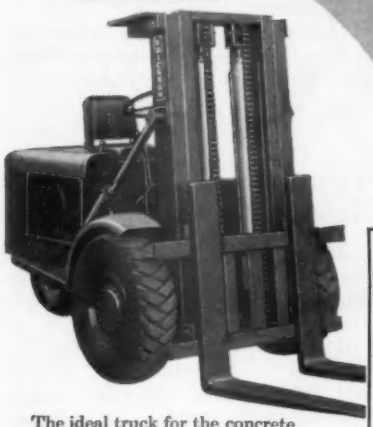
General Electric Company, Electronics Park, Syracuse, New York, has announced a new tone squelch system called Channel Guard. It is designed to relieve two way radio users of the necessity of listening to transmissions of other operators sharing the same channel. The system achieves this by super-imposing continuous tone on normal squelch. Transmitters are tone-coded for recognition by receivers.

One feature of Channel Guard is "automatic monitoring" before transmission. This permits the operator to determine whether anyone is using the channel when he picks up his microphone. According to the manufacturer, messages are sent uninterrupted.

Another feature is that Channel Guard supplements the standard squelch circuit in a receiver. The operator may choose between Channel Guard's protection or standard squelch at will.

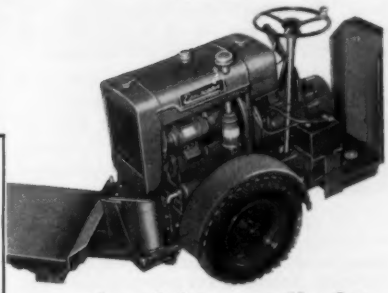
put the *Erickson* "workhorse team" to work in *your* plant!

ERICKSON FK-60
FORK LIFT TRUCK



Here's the pair of Ericksons that have proven themselves the BACKBONE OF BLOCK PRODUCTION. Erickson's rugged dependability and long life have won its reputation as "the workhorse of lift trucks". Erickson trucks are custom-built to fit your needs.

ERICKSON AR-TIC-U-LATED
PLATFORM TRUCK



OVER 1,000 BLOCK PLANTS cut costs with *Erickson*

The ideal truck for the concrete industry. Ericksons have a proven 30-year record for low-cost handling cubed blocks in the yard — stockpiling, loading and unloading delivery trucks.

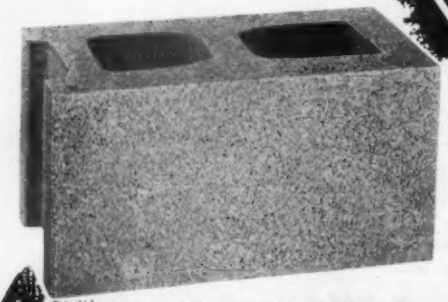
A revolutionary new idea for speed and maneuverability handling heavy loads in close quarters. This new Erickson is AR-TIC-U-LATED—with a pivot between platform and drive wheels which gives the effect of 4-wheel steering. Platform beds up to 10 or 12 feet long.

ERICKSON POWER LIFT TRUCKS, Inc.

221 St. Anthony Blvd. N. E. • Minneapolis 13, Minn.

Why the OSWALT Block Machine . . .

6 Good Reasons:



Texture smooth and uniform due to Oswalt long amplitude and low frequency filling of the mold.

Straight edges and square corners assured by Oswalt Density Control with Matched Vibration.

Uniformity in height maintained as result of extra finish on Oswalt Height Control.

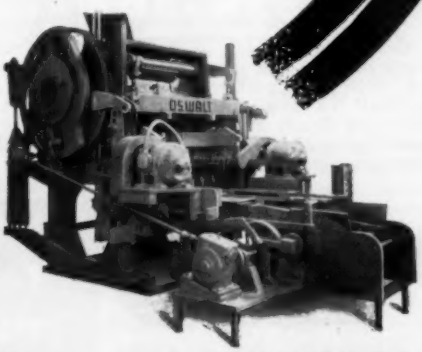
Firm crack-free condition due to gentle handling on Shock-Free Block Ejector.

Well-filled quality of faces accomplished by Oswalt Adjustable Compound Vibration.

Dense compaction for maximum strength and durability is achieved by great force of Oswalt Matched Vibration.

OSWALT BLOCK MACHINE is made up of a combination of Oswalt Services that are capable of producing superior quality Blocks at highest efficiency and record low cost. These Services are: Speed-up Mechanism . . . Shock-Free Handling . . . and Uniform Height and Density Control System.

Write for New Brochure



Shock-Free Block Ejection by Harmonic Crank
Oswalt Patent No. 2770346

. . . makes BETTER BLOCKS

OSWALT ENGINEERING SERVICE CORP.

1335 CIRCLE AVENUE, FOREST PARK, ILL. • Phones: EStebrook 8-4664 (Chicago) • FOrest 6-2798 (Suburban)

Dodson's Digest

The art of persuasion

Jack Morrison and I got into a friendly argument the other day. I was visiting Jack's concrete-block plant, and he was showing me around the place.

"You've really got a good deal here, Jack," I commented. "With all the construction that's going on today, you can sell all the concrete block you can make."

"You're the one that's got the good deal, Dod," Jack replied. "Selling Calcium Chloride is easy. All you have to do is point out that Calcium Chloride gives concrete higher early strength, and it sells itself."

"No, you've got the easiest job," I insisted. "Concrete block is becoming more and more popular as a building material. Your market is increasing every day."

"That's true," Jack admitted. "But when you show a blockmaker how Calcium Chloride can cut his curing time in half, free his pallets sooner, and step up production . . . "

"You're right," I agreed. "But don't forget, Calcium Chloride helps *you*, too. It increases the workability of your concrete, so you can handle it easier. Think of the time and money that saves you! And besides, Calcium Chloride helps produce stronger, better looking block that's easy to sell."

"Another advantage you've got," Jack went on, "is that you can sell Calcium Chloride all year long. It increases the strength of concrete in both summer *and* winter."

Just then Jack's phone rang. It was an order for some block. He wrote down the details and hung up the receiver. "Look at that!" I exclaimed. "How could you have it any easier?"

"O.K.," Jack laughed, picking up his golf clubs. "I guess we've done a good enough job of talking ourselves into taking the afternoon off. Let's go!"

— L. D. Dodson

P.S. — Get the complete story on the use of Wyandotte Calcium Chloride for concrete products. Write me for your free copy of our folder, "How To Make Better Concrete Products and Ready-Mix." *Wyandotte Chemicals Corporation, Wyandotte, Michigan. Offices in principal cities.*

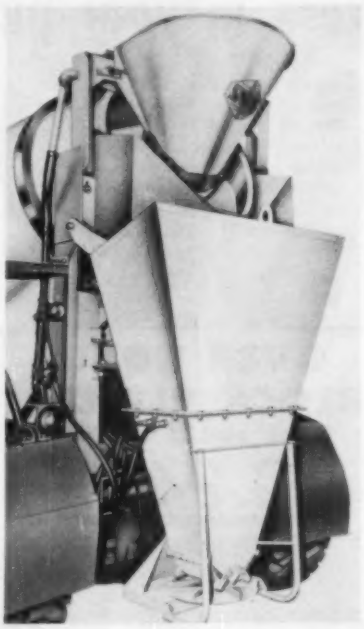
Wyandotte CHEMICALS

MICHIGAN ALKALI DIVISION

HEADQUARTERS FOR CALCIUM CHLORIDE

Off-Duty Truck Mixer Has Potential Secondary Use

The latest item added to The T. L. Smith Company line is a sand



spreader which, when attached to an idle T. L. Smith truck mixer, converts it into a sand spreader. Such an installation enables the unit to keep busy during the winter months when concrete pouring is slow.

In operation, the mixer is filled with sand, or a combination of salt and sand which can be mixed enroute to the job site. On the job, the mixer is revolved slowly in reverse, keeping the sand hopper full without overflow.

The unit is powered by a hydraulic pump, driven from the water pump drive pulley. The operator can regulate the width of the sand spray by varying the speed of a sealed hydraulic motor located inside the sand hopper.

Literature describing this product is available from The T. L. Smith Company, Milwaukee 1, Wisconsin.

British Firm Offers New Powered Grouting Machine

The Galmec Grout Pump, a product of General Mechanics Limited in England, brings diesel or electrical power to the problem of grouting ducts in post tensioned concrete members.

The machine is designed to mix a one-hundred-pound bag of cement, producing according to the water-cement ratio specified, 15 gallons of grout. It performs mixing operations in approximately eight minutes and, according to the manufacturer, will maintain the consistency of the grout during pumping. The grouting process involves inserting the delivery nozzle into the duct hole and operating a control trigger.

Full details can be obtained by writing the firm addressed to West Bay Works, Bridport, Dorset, England.

Yale and Towne Offers a New Line of Lift Trucks

The Yale and Towne Manufacturing Company, 11,000 Roosevelt Boulevard, Philadelphia 15, Pennsylvania, has announced a new line of fork lift trucks. They are being introduced in 15,000, 16,500, 18,000 and 20,000-pound capacity models powered with gasoline or LP-gas. They utilize either a straight friction clutch transmission or a fluid coupling transmission.

Two lift cylinders spaced wide at the channels give a broad base for lifting force and load stability. Chains for transmitting lifting power to the carriage are in front of the cylinders, leaving an unobstructed visibility space. The channels are mounted along the center line of the I-beam

frame sections, reducing stress in mounting brackets.

The truck's low center of gravity and 10-inch underclearance aid maneuverability. Ground contact is provided by the articulating steering axle.

The forks are freed for lateral movement by the release of a locking lever. With locking device disengaged, forks can be removed by lowering them onto a raised surface, then backing truck away.

Here's a versatile new topping for cement floors—anywhere. It's just as effective and durable outdoors or indoors. It won't chip. It won't dust. It won't rust. It's chemical, spark, and skid resistant. Super Bondsit is an emulsion containing liquid Latex that makes an unbeatable concrete floor topping or patch when incorporated into cementitious mixtures.

Now with only one material—versatile Horn Super Bondsit—you can solve the varying concrete floor patching and topping problems in all these industries: • paper • rubber • textile • electrical • dairy • sugar • drug • chemical • and in many more industrial and commercial buildings, as well as for playgrounds and tennis courts. For full information write to: Dept. H28-1168

A. C. Horn Companies
SUBSIDIARIES & DIVISIONS
Chemical Corporation
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DIVISIONS OF SUN CHEMICAL CORPORATION
HORN (paints, maintenance and construction materials, industrial coatings) • WARWICK (textile and industrial chemicals) • WARWICK WAX (refiners of specialty waxes) • RUTHERFORD (lithographic equipment) • SUN SUPPLY (lithographic supplies) • GENERAL PRINTING INK (Sigmund Ullman • Fuchs & Lang • Eagle • American • Kelly • Chemical Color & Supply Inks) • MORRILL (news inks) • ELECTRO-TECHNICAL PRODUCTS (coatings and plastics) • PIGMENTS DIVISION (pigments for paints, plastics, printing inks of all kinds) • OVERSEAS DIVISION (export) • A. C. HORN COMPANY, LIMITED (Canada) • GENERAL PRINTING INK CORPORATION OF CANADA, LIMITED • FUCHS & LANG de MEXICO, S. A. de C. V.

RESEARCH DATA RELEASED BY DUR-O-WAL

Independent Study Now Available to Industry

In an effort to obtain pertinent information as to how joint reinforcing actually affects the strength of masonry construction, Dur-O-waL sponsored a program of research carried on by the Research Foundation of the University of Toledo in 1956.

A total of 39 walls, 9'-4" x 4' were built and tested. More than two dozen tension tests were made on plain and deformed wires; 80 pull-out tests were made to determine bond characteristics.

Guide for Comparison

Three points of importance in comparing quality —

1. Weight of material
   a. Comparison of actual weight per 1000 lineal feet.
   b. Flexural strength in relation to weight of steel in wall.
2. Deformation
   a. Report of tests
3. Mortar Locks
   a. Report of comparative tests

You are invited to send for your copy of the research findings to learn how this truss design member provides superior lateral and horizontal reinforcing.

Manufacturing and Distributing Facilities

More than 8,000 dealers stock Dur-O-waL, which is distributed in key markets throughout the United States. It is readily available in your area now.

Dur-O-waL is manufactured by the Dur-O-waL Division, Cedar Rapids Block Company, Cedar Rapids, Iowa; Dur-O-waL Products, Inc., Box 628, Syracuse, N.Y.; Dur-O-waL of Illinois, 119 N. River Street, Aurora, Illinois; Dur-O-waL Products of Alabama, Inc., Box 5446, Birmingham, Alabama; Dur-O-waL Products, Inc, 4500 E. Lombard St., Baltimore, Md.; Dur-O-waL Div., Frontier Mfg. Co., Box 49, Phoenix, Ariz.; and Dur-O-waL, Inc., 165 Utah St., Toledo, Ohio.

Advertisement

Edmont Case No. 475: Handling finished concrete products, plastic treated gloves lasted for 2 shifts. Edmont No. 31's with **triple-thick** palm coating, wore up to 8 shifts, cut costs more than 50%.

Job-fitted gloves cut costs over 50%

The actual wear report given above is typical of the experience thousands of users have had with Edmont "job-fitted" gloves. In this case, Edmont No. 31's were recommended for the job because their triple-thick plastic coated palms outwear any other gloves made for handling rough concrete and cinder blocks. These gloves also give a better grip to prevent accidents and breakage.

Free Test Offer To Listed Firms: Tell us your operation and materials handled. Without cost, we will send you recommended gloves for on-the-job testing.

Edmont Manufacturing Company
1206 Walnut Street, Coshocton, Ohio

Edmont
JOB-FITTED
GLOVES

AURAND

CLEANING TOOLS
ELECTRIC OR PNEUMATIC

Zip away
SCALE
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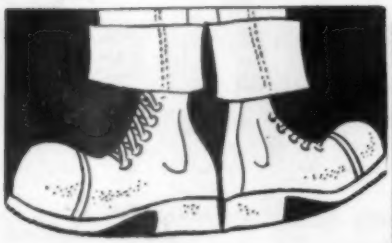
Powerful rotary chipping action completely removes stubborn accumulations from iron, steel, brick, concrete, etc. with less effort. Adjustable depth shoe for controlling depth of cut. Renewable cutter heads. Two sizes in both electric and pneumatic models. Lightweight.

Write Dept. 15 for the money-saving facts.

AURAND MFG. & EQUIP. CO.
1210 Ellis St. • Cincinnati 14, Ohio



SAFETY SHOES
are fine . . .
BUT!

Safety shoes can save your feet, but they can be tough on weigh-batch hoppers . . . or any other type of bin or chute. The firm vibrating action of a Cleveland Vibrator is the modern, efficient way of stopping bridging or arching before it starts, and keeping granular material moving.

Cleveland pneumatic and electric vibrators have been designed for use on weigh-batch hoppers. Both these models include standard brackets and clamps for fast easy installation.

Pneumatic

Electric

Bridging of sand, gravel, cement, or even wet concrete; in the weigh-batch hopper is broken up quickly and quietly with a Cleveland Vibrator.

There is no better way to handle bulk material handling problems than with a modern Cleveland Vibrator.

Write for further details and prices.

2708 Clinton Ave. • Cleveland 13, Ohio

Trailer Integral Axle "5th Wheel" by A. O. Smith Uses No Leaf Springs, Reduces Fatigue, Vibration

A new over-the-highway trailer "5th wheel" design was announced by A. O. Smith's Pacific Coast Works, 5715 Smithway, Los Angeles.

Designed for front suspension on the rear trailer of a truck train, according to the manufacturer, it increases driver control, minimizes fatigue by neutralizing rebounds, and reduces backlash and trailer shift.

The unit consists of two assemblies: the stabilizer assembly fastened to the trailer frame, and the axle assembly. The latter, consisting of the shock-absorbing cushion rings, is housed inside the front axle. Here five pairs of synthetic rubber cushion rings—bonded to steel divider plates—carry the vertical load and absorb the shock. In addition, Neoprene O-rings absorb rebound shock. This assembly, floating in an oil bath, is cased with a protective cover, enveloped by a permanently bonded synthetic rubber cushion-jacket. This takes up lateral and longitudinal shocks of the road, controls the trailer and eliminates road wobble. A center pin links the two assemblies and provides the axis for turning.

Champion Abrasive Blade Dry Cuts Green Concrete

Champion Manufacturing Company has produced a silicon carbide reinforced abrasive blade for dry cutting green concrete.

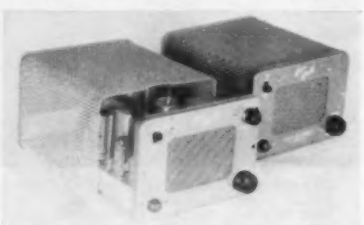
The blade, called C400-DC by the manufacturer, eliminates the need for a water truck, messy hose lines,

and other cumbersome apparatus.

More information is available from the company at 2028 Washington Avenue, St. Louis 3, Missouri.

Seeley Car Call Receiver Can Share Radio Antenna

Seeley Electronics, 1060 South La Brea Avenue, Los Angeles 19, California, has announced a new FM model of the Car Call mobile receiver



which has been used in radio paging. It can be used as an auxilliary mobile receiver in conjunction with the many two-way mobile services such as police, ambulance, fire, and trucking in the 30 to 50 megacycle band.

This Car Call receiver is a crystal controlled, fixed frequency receiver which will operate on either 6 or 12 volts. Self-contained, it requires no connection with the auto radio and, according to the manufacturer, can be operated directly from the regular auto radio antenna without affecting radio operation. A squelch circuit, adjustable from the front panel, is included for quieting of the receiver between calls.

Beautify and Protect Porous Masonry with ONE COAT AGRASEAL

NEW, WATER-REPELLENT BRUSH COAT SEALS PORES OF CONCRETE AND BEAUTIFIES IN ONLY ONE COAT!

- For exterior or interior use on cinder blocks, light-weight aggregate and concrete blocks.
- Better than two or more coats of ordinary cement coatings.
- Fills all voids. No hair checking. No alligator checking. No powdering.
- No expensive equipment needed. Apply with ordinary scrub brush or short bristle paint brush.
- Easy mixing. No lumps. Quickly soluble.
- Easy brushing. Spreads like butter. Cures fast.
- Comes in white and nine beautiful colors — cream, grey, green, brick red, light buff, sunny yellow, mint green, peach and coral pink.

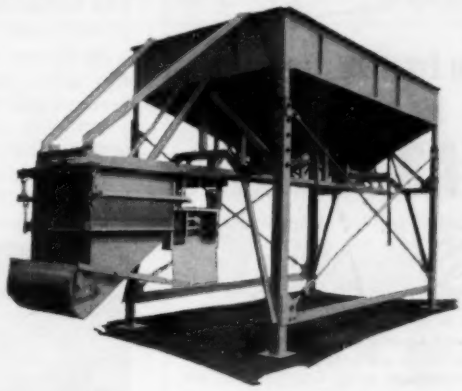
Write for details!

TAMMS INDUSTRIES, INC.

228 N. LA SALLE ST., CHICAGO 1, ILL.

WINSLOW BINANBATCH

COST SAVING EQUIPMENT—FOR USE WITH 10S-11S-14S-16S MIXERS—AND AT CONCRETE PRODUCTS AND PIPE PLANTS



OVERHEAD BIN CAPACITY 23 OR 40 TONS

Binanbatch can batch and discharge into one or two mixers. Hundreds of users of this equipment can tell of the cost saving advantages of the Binanbatch.

We offer batching bins for ready mix business at low investment

WRITE FOR COMPLETE DETAILS

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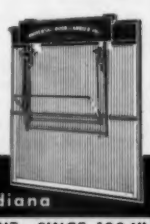
Most block producers are "good eggs"—but "hard boiled" equipment buyers. They're not easily taken in by titillating talk and perfumed prices. They're after *quality*. Equipment that will *make* 'em money and *save* 'em money by superior performance, dependability, and durability. That's why most "tough customers" are *our* customers.

Universal

KILN DOORS and DOOR CARRIERS

UNI-SEAL Superior Door Gasket and Cement

UNI-COAT Positive Anti-Rust Coating



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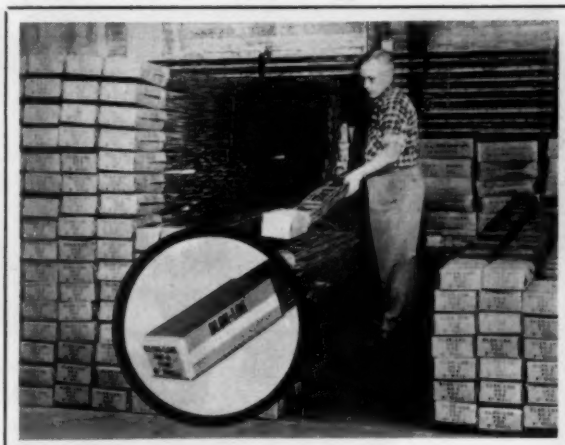

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Blok-Lok masonry wall reinforcement is marked and packaged for easy identification and handling; in bundles of 25 pieces, 10' or 12' lengths.

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I am a ☐ Block Manufacturer ☐ Other

AA WIRE PRODUCTS COMPANY

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Form Erection Drawings for owners of

EFCO FORMS

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- **Lifetime steel faces should never need to be replaced.**
- **Easy to handle and assemble.**
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- **Low original cost.**

Other forms from Economy are available on a rental basis.

For catalog and full address of office nearest you, write:

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Offices in Kansas City, Mo.; Lincoln, Nebr.; Minneapolis, Minn.; Ft. Wayne, Ind.; Milwaukee, Wis.; Chicago, Ill.; Cincinnati, Ohio; Cleveland, Ohio; Metuchen, N. J.; Rochester, N. Y.; Springfield, Mass.; Waltham, Mass.; New York, N. Y.; Washington, D. C.; Decatur, Ga.; Birmingham, Ala.; Charlotte, N. C.; Dallas, Texas; Tulsa, Okla.; Houston, Texas; Los Angeles, Cal.; Oakland, Cal.; Denver, Colo.

Travel-Desk is Available From General Industrial

General Industrial Company in Chicago offers a Travel-Desk for those who handle business details from the driver's seat.

At the top of the board is a spring clip which secures writing pads, papers, records or maps, and serves as a trough for a magnetic mechanical pencil. The 6¼ x 10-inch metal clip board swings alongside the driver from under the dash. Four leveling

screws, an arm and a clamp give support to the writing pad and keep the Travel-Desk level. More information is available from General Industrial Company, 5742 North Elston Avenue, Chicago 30, Illinois.

Construction Machinery Adds New Mixer Model 550

Construction Machinery Company of Waterloo, Iowa, announces the addition of the new Model 550 (Transcrete) to its present line of truck mixers.

The Model 550 has a drum vol-

ume of 243 cubic feet, carries a mixer rating of 5½ yards, and as an agitator is rated to carry 6 to 6½ yards of concrete. It is available with optional Ford or Chrysler separate engine power — and is also offered in the popular CMC TED (truck engine drive). The 550 has the (Transcrete) features of floating drive, swing-out hopper and favorable center of gravity for load distribution and stability.

WAL-LOK

MORTAR JOINT REINFORCING

1ST

WITH ARCHITECTS and BUILDERS because WAL-LOK was first . . .

- to use research for product improvement.
- to deform without impairing tensile strength.
- to use projecting Cross Bars — 4 mortar locks at every weld.
- to comply with National Bureau of Standards Recommendations.
- to furnish galvanized Cross Bars.
- to furnish 12' lengths in 300' bundles — fewer splices, less scrap, lower cost.
- to manufacture 8 Gauge Super Standard.
- to insure complete mortar bondage.

WAL-LOK IS A NECESSITY

- to minimize shrinkage cracks.
- to withstand side pressure.
- to increase wall strength.
- to reduce cracks caused by foundation failures.

YOUR CHOICE: 1. Bright basic Side Rods with galvanized Cross Bars 2. Fabricated from galvanized wire 3. Galvanized after fabrication.

Make WAL-LOK first on your list. Write today for descriptive brochure packed with facts.

WAL-LOK

ADRIAN PEERLESS, INC.

1433 Michigan Adrian, Mich.

Good Books for Concrete Men

All of the following books are available from Concrete Publishing Corp., 400 West Madison Street, Chicago 6, Ill. Prices are for cash with order and include postage.

REINFORCED CONCRETE DESIGNER'S HANDBOOK. By Chas. E. Reynolds. Revised 1951. 344 pages, 69 tables, 40 illustrations, 106 examples. A standard work of design data for everyday use. Has large, easily read design tables that cover every type of reinforced concrete structure—with fully worked examples, short cuts and simplified methods proved in practice and essential for rapid solutions of problems. *PRICE* $5.20

BUILDING ESTIMATOR'S REFERENCE BOOK. By Frank R. Walker. The new Twelfth Edition, revised and rewritten. 1,780 pages containing the latest estimating and cost data on everything that goes into building construction from foundation to the finishing coat of paint. Can be used in any locality, regardless of local prices or wage scales. Included free is the new Vest Pocket Estimator, a separate book of 220 pages of up-to-the-minute estimating and cost data in condensed tabular form. *PRICE* $12.00

CONCRETE CONSTRUCTION MADE EASY. By Leslie Turner and Albert Lakeman. Reprinted 1948. 118 pages, 69 illustrations, 16 tables. A practical book that solves problems in design and erection of any type concrete structure. Full designs with tables and all necessary information for building foundations, walls, columns, floors, roofs, staircases, beams, water tanks, retaining walls, lintels, form-work, saw-tooth roofs, etc. Written clearly and plainly. *PRICE* $2.10

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$10.00 per column inch. Closing date for classified advertising copy is 15th of preceding month.

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Modern Packerhead pipe machine, double spindle makes two pipe at one time, from 4" to 6", also makes up to 24" diameter 3' long single. Aluminum jackets and complete line of pallets and other equipment, ready to go.

ELLEDGE BROTHERS CONCRETE PROD. INC.
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FOR SALE

Norwalk farm for making 500 gallon septic tanks, includes turning and lifting bars. Excellent condition.

EDWIN B. ORVIS
835 Atlantic Avenue Milford, Michigan.

NO. 9 JOLTCRETE OWNERS

Have two No. 9 Joltcretes. Can be used for additional production or a good buy for repairs. Also, numerous mold boxes, repair parts and pallets all sizes. Price — you name it, we might take it. Also for sale, modernized Gocorp Senior with mold boxes. Can be seen now in operation. A bargain.

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2700 W. Ewing Ave. Mishawaka, Ind.
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FOR SALE

Rex paving machine, $5,000.00. Want to buy used 5½ or 6 cu. yd. truck mixers, preferably Jaegers. Will trade.

BLAIR-ROUSH CORPORATION
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Rollerbed body used less than one year. Will sell reasonable. Write or call.

HUDSON VALLEY BLOCK CO., INC.
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Tests of Cement, Concrete, Sand, Steel, Cement Block, Cement Brick.

Chemical Analyses of All Commercial Products. Complete Technical Supervision of Central Mixed Concrete Plants.

2024 ARCH ST. • PHILADELPHIA, PA.

FOR SALE

Columbia block plant, 4,000 daily capacity, consisting of a two-year old 2-at-a-time Columbia machine, racks, pallets, mixer, skip hoist and 6 molds. Equipment only is for sale.

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WANTED:

Foreman for cast stone. Write stating age, experience and salary desired.

Address Box A-7, care CONCRETE
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DISTRIBUTORS WANTED

Sell longbottoms, wings, packers, shoes, core sections to every concrete pipe plant. Establish your own profitable business. Buy from us. Exclusive.

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INVENTORS AND MACHINE DESIGNERS

National manufacturer is desirous of obtaining manufacturing and sales rights on any equipment or improvements used in concrete products plants on a royalty or outright purchase basis. Patents not essential. Protection guaranteed.

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Concrete Block Machine
Factory Reconditioned

FMC—180, plain pallet block machine, guaranteed. Comes complete with motors and mold box. Capacity 1400 blocks daily. $2750.00. Financing available.

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THE MAN THAT GIVES, "GATHERS"

Constant reminders with Imprinted Pins, Trigs, Corner Blocks and Jointers.

Let us imprint your name on any item. (35 characters, 2 lines). Write for illustrated folder and new low price list. Immediate delivery. Samples sent on request.

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COLOR YOUR CONCRETE WITH LANSCO CEMENT COLORS, available in 40 ATTRACTIVE shades. Suitable for all types of concrete products. Write for our new color card, copy of "Suggestions For Using Cement Colors," and for free samples and price list.

Manufactured by:

LANDERS-SEGAL COLOR CO.
76 Delevan St. • Brooklyn 31, N. Y.

FOR SALE

Used Joltcrete No. 9 block machine, with off-bearing hoist, molds for 4", 8" and 12" block, about 3,000 pallets and 15 racks. Price very low.

Address Box A-3, care CONCRETE
400 W. Madison St. Chicago 7, Ill.

FOR SALE

One 1947 three yard Rex Hi-Discharge Moto Mixer mounted on a 1950 GMC Model 622 chassis; 900 x 20, 10-ply tires; standard cab; 5 speed transmission. Price $1,000.00.

Also, one 1947 Smith 3 yard Mixer, unmounted, will mount on your truck; Model 455; closed seal end; new drum in 1951. Price $500.00.

FREDERICK G. SMITH
407 E. Stephenson St., Freeport, Ill.

FOR SALE

New and used Mobile beater-type 17 cu. ft. mixers. Powered by 4-cylinder, 16.5 Hp. International engine. All mixers have variable speed, governor control. Mixer paddles with ½" wire mesh. Gear safety release. Vickers hydraulic equipment. Made for mixing special lightweight aggregate and cellular concrete. All models priced below cost. Write to:

ELASTIZELL CORP. OF AMERICA
Box 215 Alpena, Michigan
Phone: 1080

TRY SPILLMAN'S "Swiss" Form Oil!

- **Stop cleaning forms EVERY DAY!**
- **Instead, clean them ONCE A WEEK or ONCE A MONTH!**
- **Easy stripping and fine finish!**
- **Field tested several years!**
- **You'll be glad you wrote!**
- **Instructions sent with each order!**

STANDARD SIZE FIVE GALLONS only **$9.95**

ENCLOSE CHECK TO SAVE BOOKKEEPING — THANK YOU!

R. L. SPILLMAN CO.
Box 534, Station "G" Columbus, Ohio

PLAIN PALLET CLEANING

We truck our machine to your plant and supervise entire cleaning and planing off of pallet residue. No need to shut down as we will keep up with production.

EDWARD A. LOBSTEIN
5363 Seminole Ave. Detroit 13, Mich.
Phone: Walnut 2-1135

FOR SALE

Erickson Fork Lift F-6-R, 6,000 lb. Almost new.
Erickson F-4-R, 4,000 lb. O.K. Four years old.
Erickson F-5, 5,000 lb. stand up model. O.K. Four years old.
Erickson Platform P-7, 7,000 lb. bed dimension 28" x 72" — 11" Power steering — good shape — four years old.
Gibson 6,000 lb. fork lift — excellent.
Hyster YT-40, 4,000 lb. completely rebuilt — guaranteed.
Hyster Y-40, 4,000 lb. Needs work. Bargain.
Fordson Tractor with 4,000 lb. Sherman hoist. New condition.
Clark 6,000 lb. L.P. Gas two years old like new.

D. J. RAPLEY EQUIPMENT COMPANY
Grand Beach, New Buffalo, Michigan

FOR SALE

As we have installed larger STEARNS equipment, we have the following good used equipment for immediate sale:

1 — Fleming Automatic 180, approximately one year old.
1 — Fleming Automatic 180, six months old.
1 — 8" x 8" x 16" mold box and attachments.
1 — 4" x 8" x 16" mold box and attachments.
1 — 12" x 8" x 16" mold box and attachments.
1 — 14 cu. ft. Appley mixer.
1 — 8 cu. ft. George mixer, 5 HP, 3 phase, 60 cycle, 220 volt motor.
1 — 9 cu. ft. George mixer, 7½ HP, 3 phase, 60 cycle, 220 volt motor.

Enough wooden racks and 8" pallets to make 3,000 8" x 8" x 16", or equivalent, units per eight-hour day.

600 — Wooden pallets for 12" units.
All wooden pallets are pressure treated.

The above equipment is clean and in good operating condition. Will sacrifice for quick sale. Write or phone:

Harry F. Griggs
GRIGGS CONCRETE PRODUCTS COMPANY
P. O. Box 147 Perry, Georgia
Phone: 628-J

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- **The Standard of Comparison for Nearly Forty Years**
- **65 Shades to Choose From Including Many New Colors**

Send For Latest COLOR CARD, Samples, Technical Brochure, and Quotations.

SMITH CHEMICAL & COLOR CO.
53-57 John St., Brooklyn 1, N.Y.

POSITION WANTED

Young ready mixed plant manager desirous of relocating South. Widely diversified experience. Best of references.

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100,000 pressed steel pallets in stock (Send tracing or sample for quotation).	

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PRICE : LESS than mild steel
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1940 Besser block machine equipped with off-bearing hoist and side pallet feeder. Can be seen in Syracuse, N. Y.

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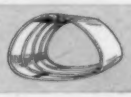

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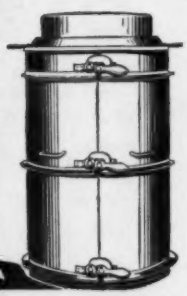

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ADVERTISERS IN THIS ISSUE

A A Wire Products Company 43
Adrian-Peerless, Inc. 44
Aurand Mfg. & Equipment Co. 41

Berg Vault Company 47
Bergen Machine & Tool Co., Inc. ... 2
Besser Company .. 33, 35, Inside Front Cover, and Back Cover

Celotex Corporation, The 33
Classified Advertising .. 45, 46, and 47
Cleveland Vibrator Company 42
Columbia Machine 4
Construction Machinery Company .. 8

Dodge Corporation, F. W. 10
Dur-O-Wal Products Company 41

Economy Forms Corporation 44
Edmont Manufacturing Company ... 41
Erickson Power Lift Trucks, Inc. 39

Food Machinery & Chemical Corp., Florida Division 16
Forrer's Div., Spray-O-Bond Co. ... 9

Horn Company, A. C. 41

Johnson Company, C. S. 19

Kent Machine Company 30
Knickerbocker Co., Truck-Man Div. . 37

Lone Star Cement Corporation 1

Marathon Corporation 35
Monarch Road Machinery Co. 31
Motorola Communications & Electronics, Inc. 12

National Conveyor & Supply Co. ... 17

Oswalt Engineering Service Corp. .. 39

Portland Cement Association 37
Presto Brick Machine Corporation .. 7

Quinn Wire & Iron Works 47

Smith Company, T. L. 11
Soiltest, Inc. 28
Stearns Manufacturing Company ... . Inside Back Cover
Struthers Wells Corporation 3
Syntron Company 18

Tamms Industries, Inc. 43
Truck Mixer Manufacturers Bureau . 14

Universal Door Carrier, Inc. 43

Waylite Company 29
Westinghouse Transit Mixer Div., LeTourneau-Westinghouse Co. ... 6
Winslow Scale Company 43
Wyandotte Chemicals Corporation . 40

THE EDITOR'S PAGE

DOUGLAS LEE

Underground Cover

SOBER realization of the need for some sort of basement or shelter area in each new house was displayed—quite drastically—again last month.

Tornadoes—the scourge of flat areas of land, including most of the Midwest, east of the Rocky Mountains—took a considerable toll of life and property destruction. The exact figures do not need recounting.

Pictures, appearing in the newspapers and on television, gave evidence to the fact that little of any consequence remains upright above ground when it's in the direct path of a twister.

But most pointedly, we should be aware that basements proved to be the only really-safe place to weather these phenomenon. The papers noted quite specifically that the toll of life would have been considerably higher if many of the citizens hadn't heeded the warnings of local news agencies to the effect that tornadoes could be expected.

It would seem only reasonable, in the light of this knowledge, for producers—both ready mix and block—to suggest a trend toward building old-fashioned basements in houses be initiated in their areas, if one doesn't already exist. Basements should be sold a little more vigorously at the architectural and building levels.

A word of caution though: people often bristle along their spine when you try to scare or force them into doing something. Treat the survival element softly. It might be in order, at this point, to mention a quotation from the Yucca Flats editorial, CONCRETE, June, 1955. "Until we've really exhausted all the considerable array of positive promotional ammunition at our disposal, we're just not sure it would be smart to embark on an intensive campaign of relatively negative 'survival' selling."

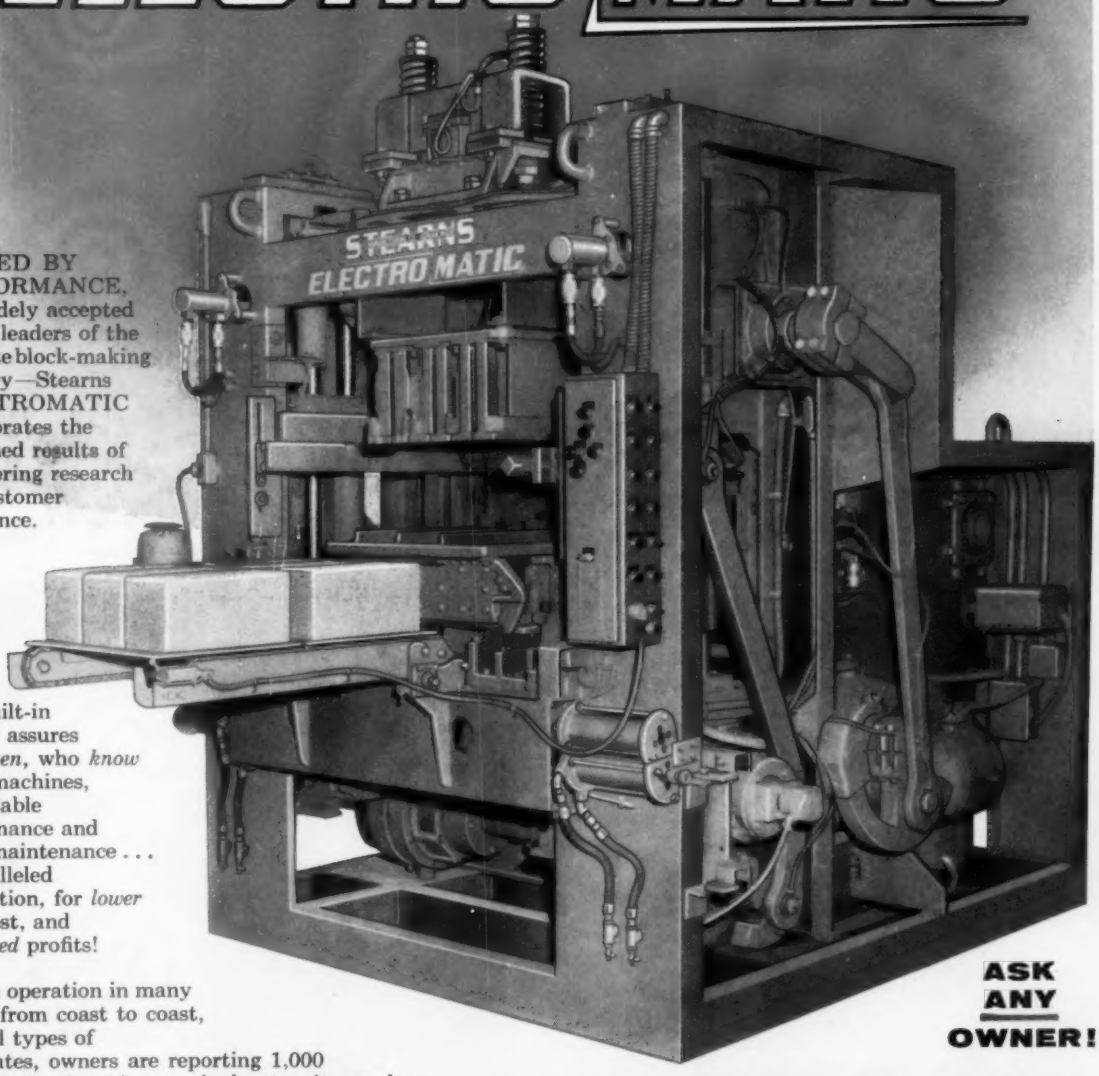
Besides, a basement, either of poured concrete or block, has many other sales advantages: it provides a good storage area; it adds to the salability of the house; it gives the wife a place to hang the wet clothes in winter; it offers the family a cool place in which to spend the warm summer evenings.

Proved by Performance!

...preferred by leaders!

THE STEARNS

ELECTROMATIC



PROVED BY PERFORMANCE, and widely accepted by the leaders of the concrete block-making industry—Stearns ELECTROMATIC incorporates the combined results of engineering research *and* customer preference.

The built-in quality assures *these men*, who *know* block machines, dependable performance and lower maintenance . . . unparalleled production, for *lower* unit cost, and *increased* profits!

Now in operation in many states, from coast to coast, with all types of aggregates, owners are reporting 1,000 to 1,100 (8 x 8 x 16 or equivalent) units per hour. Write today for full particulars and the installation nearest to you!

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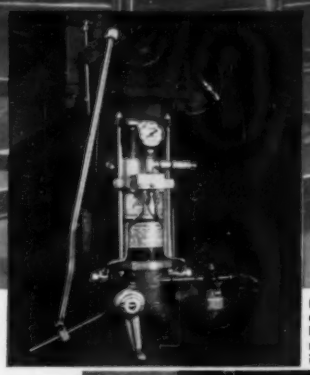
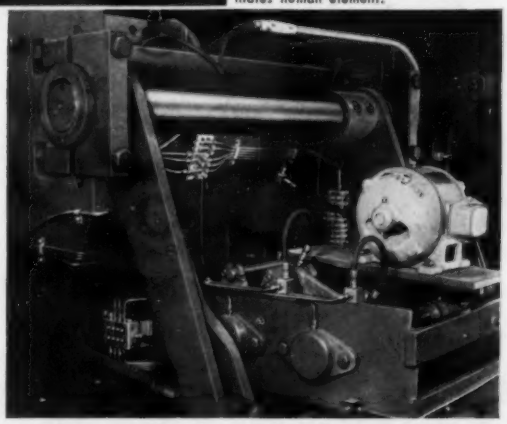
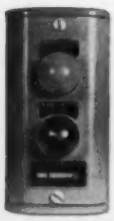
Another BESSER VIBRAPAC *Exclusive to Boost Block Production and Profits!*



(Left) Positive-feed pump mounted on outboard bearing support of VIBRAPAC machine. Starts and stops automatically with VIBRAPAC . . . eliminates human element.



Distributor junction blocks with lubrication lines installed on VIBRAPAC. Shows master feeder assembly and ¼" tubing for automatic lubrication of bearings.



Signal light indicator at pump. Shows all bearings have been properly lubricated.

The Self-Lubricating VIBRAPAC cuts downtime...helps you produce more concrete block at less cost.

Throw away your grease gun! A Besser VIBRAPAC now lubricates itself . . . at regular intervals . . . *while it is running.*

No more downtime for lubrication! No lost man hours. No premature wear of insufficiently lubricated parts. And, no *over* lubrication. Instead, you get constant operation, smoother operation, vastly longer service from moving parts . . . with each bearing getting the right amount of lubricant at the right time, *automatically!* All this adds up to increased output at lower cost. And that's what you need to get a bigger share of today's heavy demand for quality block.

Of course, a VIBRAPAC has many other features that only BESSER can give you . . . more power . . . more production . . . smoother, high-speed operation . . . pin-point precision that assures finer block with greater output . . . rugged construction that provides many years of satisfactory operation.

Write for Vibrapac literature.

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